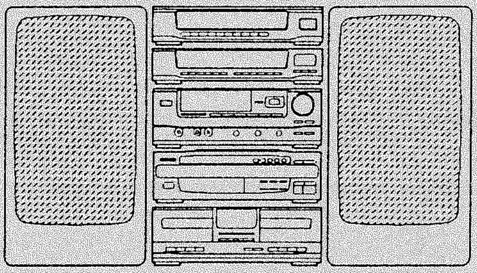
aiwa

aiwa
SERVICE

Z-D9300M



STEREO SYSTEM

• BASIC TAPE MECHANISM: 2ZM-1 P1N,R1N • TYPE:K,EE

CENTER SYSTEM	AMPLIFIER	CASSETTE DECK	TUNER	GRAPHIC EQUALIZER	SPEAKER	CD PLAYER (OPTIONAL)
Z-D9300M	MX-Z9300M	FX-WZ9300	TX-Z9300	GE-Z9300	SX-Z9300	DX-Z9300M

●As to the servise information of CD PLAYER, see the individual service manual of original (S/M Code No. 09-954-101-60I).

S/M Code No. 09-954-101-50I

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MODEL-NO. SX-Z9300

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SPECIFICATIONS

AMPLIFIER MX-Z9300M

Power requirements	230 V, 50 Hz
Power consumption	325 W (System total 360 W)
Power output	**Front** (without connecting to the SURROUND SPEAKERS) Rated: 65 W + 65 W (6 ohms, T.H.D. 1 %, 1 kHz/DIN45500) Reference: 80 W + 80 W (6 ohms, T.H.D. 10 %, 1 kHz/DIN45324) DIN MUSIC POWER: 105 W + 105 W **Rear (Surround)** Rated: 10 W + 10 W (16 ohms, T.H.D. 1 %, 1 kHz) Reference: 12.5 W + 12.5 W (16 ohms, T.H.D. 10 %, 1 kHz) DIN MUSIC POWER: 16 W + 16 W **Center** Rated: 20 W (8 ohms, T.H.D. 1 %, 1 kHz) Reference: 25 W (8 ohms, T.H.D. 10 %, 1 kHz) DIN MUSIC POWER: 32 W
Total harmonic distortion	0.08 % (25 W, 1 kHz, 6 ohms)
Outputs	SPEAKERS: accepts speakers of 6 ohms or more CENTER SPEAKER: accepts speakers of 8 ohms or more SURROUND SPEAKERS : accepts speakers of 16 ohms or more PHONES (stereo standard jack): accepts headphones of 32 ohms or more SUPER WOOFER: 1.5 V MONITOR OUT: 1 Vp-p (75 ohms) REC OUT: 300 mV (1 kohm)
Inputs	VIDEO 1/AUX 1: 300 mV (39 kohms) VIDEO 2/AUX 2: 500 mV (39 kohms) PHONO IN: 500 mV or more (36 kohms) MIC 1, MIC 2: 1.2 mV (10 kohms)
Dimension (W × H × D)	360 × 128.5 × 329 mm ($14\frac{1}{4}$ × $5\frac{1}{8}$ × 13 in.)
Weight	8.4 kg (18 lbs 8 oz)

STEREO CASSETTE DECK FX-WZ9300

Track format	4 tracks, 2 channels stereo
Frequency response	Metal tape: 20 Hz – 17000Hz CrO_2 tape: 20 Hz – 16000Hz Normal tape: 20 Hz – 15000Hz
Signal-to-noise ratio	70 dB (Dolby C NR ON, metal tape peak level above 5 kHz)
Wow and flutter	0.12 % (WRMS) ± 0.19 % (WPEAK)
Recording system	AC bias
Heads	DECK 1: Playback head × 1 DECK 2: Recording/playback/erase head × 1
Dimension (W × H × D)	360 × 128.5 × 313 mm ($14\frac{1}{4}$ × $5\frac{1}{8}$ × $12\frac{3}{8}$ in.)
Weight	3.2 kg (7 lbs 1oz)

TUNER TX-Z9300

<FM tuner section>	
Tuning range	87.5 MHz to 108 MHz
Usable sensitivity(IHF)	18.2 dBf (2.2 µV ,75 ohms)
Antenna terminals	75 ohms (unbalanced)
<MW tuner section>	
Tuning range	522 kHz to 1611 kHz
Usable sensitivity	400 µV/m
Antenna	Loop antenna
<LW tuner section>	
Tuning range	144 kHz to 290 kHz
Usable sensitivity	1000 µV/m
Antenna	Loop antenna
<General>	
Dimension <W × H × D>	360 × 88.5 × 320.5 mm ($14\frac{1}{4}$ × $3\frac{1}{2}$ × $12\frac{5}{8}$ in.)
Weight	2.1 kg (4 lbs 10 oz)

GRAPHIC EQUALIZER GE-Z9300

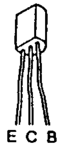
Input	210 mV (47 kohms)
Output	210 mV (47 kohms)
Dimensions (W × H × D)	360 × 88.5 × 310.5 mm ($14\frac{1}{4}$ × $3\frac{1}{2}$ × $12\frac{1}{4}$ in.)
Weight	2 kg (4 lbs 7 oz)

SPEAKER SYSTEM SX-Z9300

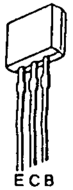
Cabinet type	3 way, bass reflex (Magnetism sealed type)
Speaker	Woofer: 220 mm ($8\frac{3}{4}$ in.) cone type Tweeter: 60 mm ($2\frac{3}{8}$ in.) cone type Super tweeter: 30 mm ($1\frac{3}{16}$ in.) ceramic type
Impedance	6 ohms
Output sound pressure level	90 dB/W/m
Dimensions (W × H × D)	290 × 545 × 230 mm ($11\frac{1}{2}$ × $21\frac{1}{2}$ × $9\frac{1}{8}$ in.)
Weight	7.2 kg (15 lbs 14 oz)

- Design and specifications are subject to change without notice.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
- "DOLBY" and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.
- The word "BBE" and the "BBE symbol" are trademarks of BBE Sound, Inc.
- Under license from BBE Sound, Inc.

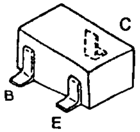
TRANSISTOR ILLUSTRATION



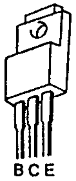
2SA952
2SA1015
2SA1048
2SA1296
2SA1318
2SC1815
2SC2001
2SC2458
2SC3328
2SC3331
2SD655
2SD1302



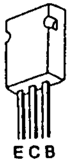
2SA933
2SC1740
2SD2144
DTA114ES
DTA114YS
DTC114ES
DTC114TS
DTC114YS
DTA144WS



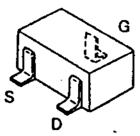
2SA1362
2SC1623
2SC2712
2SC2714
2SC3326
DTA114EK
DTA114YK
DTA123JK
DTA144EK
DTC143TK
DTC144EK
DTC144WK



2SB1370



2SB1332R



2SK209
2SK211
2SK302
2SK368

■ ACCESSORIES／PACKAGE LIST

DESCRIPTIONで判断できない物は "REFERENME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	85-VP1-902-019		IB,EGI(S)<EE>
2	85-VP1-901-019		IB,ESF(S)
3	85-VP1-620-019		RC,RC-T510
4	87-006-225-019		AM LOOP ANT NC2
5	87-043-106-019		FM,WIRE ANT (Z)

MODEL NO.

MX-Z9300M

ELECTRICAL MAIN PARTS LIST (MX-Z9300M)

DESCRIPTIONで判断できない物は "REFERENME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
IC			
	84-VP1-637-110		IC,CXP82532-114Q
	87-027-938-019		IC,TC4053BP
	87-027-958-019		IC,TC4051BP
	87-027-666-019		IC,TC4052BP
	87-002-727-019		IC,NJM4558L
	87-002-218-010		IC,XRC5451AP
	87-017-374-019		IC,TC4094BP
	87-017-885-010		IC,NJM2177AF
	87-002-872-040		IC,MC14053 BF
	87-002-255-010		IC,TC9213P
	87-017-016-010		IC,LM3875
	87-001-396-019		IC,STK4182-MK2
	87-017-019-010		IC,CXP81312-333Q
	87-017-022-089		IC,NJM2068M-D(T1)
	87-002-214-010		IC,CS5339-KP
	87-017-018-019		IC,CXD2701Q
	87-070-131-010		IC,HM514256AP-10
	87-002-279-010		IC,SM5840ES
	87-017-446-080		IC,PCM69AU
	87-002-412-080		IC,SN74HCOONS
	87-002-409-080		IC,SN74HC74NS
	87-020-881-089		IC,NJM78L05A
	87-020-882-089		IC,NJM79L05
	87-001-536-019		IC,NJM78M05FA
TRANSISTOR			
	87-026-462-089		TR,2SC1740S (RS)
	89-320-011-089		TR,2SC2001K
	87-026-464-089		TR,DTC114TS
	87-026-245-089		TR,DTC114ES
	89-113-187-889		TR,2SA1318TU
	89-213-702-019		TR,2SB1370E
	87-026-463-089		TR,2SA933S (RS)
	89-318-155-089		TR,2SC1815GR
	89-213-321-089		TR,2SB1332R (T105)
	89-320-011-289		TR,2SC2001KL
	87-026-215-089		TR,DTC114YS
	87-026-500-089		TR 2SD2144S, UV (TP)
	89-333-317-889		TR,2SC3331 TU
	89-406-555-089		TR,2SD655E
	87-026-292-089		TR,DTA144WS
	87-026-211-089		C-TR,DTA144EK T147
	87-026-238-089		C-TR,DTC144WK
	89-109-521-089		TR,2SA952K
DIODE			
	87-002-225-019		DIODE,DBF 40C-K10
	87-002-597-069		DIODE,DBF,60C-K13
	87-001-912-089		ZENER,UTZJ 5.1B
	87-020-691-089		DIODE,1SS132 T-72
	87-001-574-089		DIODE,1SR139-200 T31
	87-002-743-080		ZENER,MTZJ33B
	87-001-913-089		ZENER,UTZJ5.6B
	87-001-911-089		ZENER,UTZJ4.7A (TAPG)
	87-017-430-090		DIODE,RK14
	87-001-916-089		ZENER,UTZJ10B
	87-001-559-089		DIODE,ISS131 (T-72)
	87-002-430-089		ZENER,UTZJ8.2C
	87-027-606-089		ZENER,HZ7C2L
	87-027-301-089		ZENER,HZ3A1

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
	87-017-024-089		C-DIODE,DA204K
MAIN C.B			
C1	87-018-208-089		CAP,TC-U 0.047-50 F
C2	87-018-208-089		CAP,TC-U 0.047-50 F
C3	87-018-208-089		CAP,TC-U 0.047-50 F<EE>
C4	87-018-208-089		CAP,TC-U 0.047-50 F<EE>
C5	87-016-055-099		CAP,E 3300-42 HI-R
C6	87-016-055-099		CAP,E 3300-42 HI-R
C7	87-016-160-099		CAP,E 5600-56 BSN
C8	87-016-160-099		CAP,E 5600-56 BSN
C15	87-010-260-089		CAP,E 47-25 SME
C16	87-010-384-089		CAP,E 100-25 SME
C17	87-010-764-089		CAP,E 47-63V
C18	87-010-263-089		CAP,E 100-10
C27	87-010-406-089		CAP,E 22-50 SME
C28	87-010-101-089		CAP,E 220-16 SME
C40	87-010-545-089		CAP,E 0.22-50 SME
C60	87-010-403-089		CAP,E 3.3-50 SME
C61	87-010-374-089		CAP,E 47-10
C70	87-010-453-099		CAP E 4700-25V SME
C71	87-010-405-089		CAP,E 10-50 SME
C72	87-010-260-089		CAP,E 47-25 SME
C73	87-010-101-089		CAP,E 220-16 SME
C74	87-010-381-089		CAP,E 330-16 SME
C75	87-016-293-019		CAP,E 220-50 BP
C77	87-018-208-089		CAP,TC-U 0.047-50 F
C78	87-018-208-089		CAP,TC-U 0.047-50 F
C79	87-018-127-089		CAP,TC-U 470P-50 B
C101	87-010-404-089		CAP,E 4.7-50 SME
C102	87-010-404-089		CAP,E 4.7-50 SME
C103	87-010-406-089		CAP,E 22-50 SME
C104	87-010-374-089		CAP,E.47-10
C105	87-010-263-089		CAP,E 100-10
C106	87-010-221-089		CAP,E 470-10
C107	87-018-119-089		CAP,TC-U 100P-50 B<K>
C108	87-018-119-089		CAP,TC-U 100P-50 B<K>
C141	87-010-406-089		CAP,E 22-50 SME
C191	87-010-405-089		CAP,E 10-50 SME
C192	87-010-405-089		CAP,E 10-50 SME
C193	87-010-405-089		CAP,E 10-50 SME
C194	87-010-405-089		CAP,E 10-50 SME
C198	87-010-405-089		CAP,E 10-50 SME
C199	87-010-405-089		CAP,E 10-50 SME
C200	87-010-405-089		CAP,E 10-50 SME
C201	87-018-134-089		CAP,TC-U 0.01-16 Y
C202	87-018-134-089		CAP,TC-U 0.01-16 Y
C240	87-018-119-089		CAP,TC-U 100P-50 B<K>
C241	87-018-119-089		CAP,TC-U 100P-50 B<K>
C243	87-010-404-089		CAP,E 4.7-50 SME
C244	87-010-404-089		CAP,E 4.7-50 SME
C250	87-010-401-089		CAP,E 1-50 SME
C251	87-010-101-089		CAP,E 220-16 SME
C252	87-010-401-089		CAP,E 1-50 SME
C253	87-010-401-089		CAP,E 1-50 SME
C254	87-010-405-089		CAP,E 10-50 SME
C255	87-010-405-089		CAP,E 10-50 SME
C256	87-010-401-089		CAP,E 1-50 SME
C257	87-010-401-089		CAP,E 1-50 SME
C258	87-010-404-089		CAP,E 4.7-50 SME
C259	87-010-404-089		CAP,E 4.7-50 SME
C260	87-010-400-089		CAP,E 0.47-50 SME

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C261	87-010-400-089		CAP,E 0.47-50 SME
C262	87-010-404-089		CAP,E 4.7-50 SME
C263	87-010-404-089		CAP,E 4.7-50 SME
C264	87-010-401-089		CAP,E 1-50 SME
C265	87-010-405-089		CAP,E 10-50 SME
C266	87-010-404-089		CAP,E 4.7-50 SME
C267	87-010-404-089		CAP,E 4.7-50 SME
C268	87-010-405-089		CAP,E 10-50 SME
C269	87-018-121-089		CAP,TC-U 150P-50 B
C270	87-018-121-089		CAP,TC-U 150P-50 B
C273	87-018-134-089		CAP,TC-U 0.01-16 Y
C274	87-018-134-089		CAP,TC-U 0.01-16 Y
C275	87-018-198-089		CAP,TC-U 2700P-16 X
C276	87-018-198-089		CAP,TC-U 2700P-16 X
C277	87-018-122-089		CAP,TC-U 180P-50 B
C278	87-018-122-089		CAP,TC-U 180P-50 B
C281	87-010-544-089		CAP,E 0.1-50
C282	87-010-544-089		CAP,E 0.1-50
C283	87-010-545-089		CAP,E 0.22-50 SME
C284	87-010-545-089		CAP,E 0.22-50 SME
C285	87-010-403-089		CAP,E 3.3-50 SME
C286	87-010-405-089		CAP,E 10-50 SME
C287	87-010-405-089		CAP,E 10-50 SME
C289	87-010-401-089		CAP,E 1-50 SME
C290	87-010-403-089		CAP,E 3.3-50 SME
C291	87-018-195-089		CAP,TC-U 1200P-16 X
C292	87-018-195-089		CAP,TC-U 1200P-16 X
C293	87-018-126-089		CAP,TC-U 390P-50 B
C294	87-018-126-089		CAP,TC-U 390P-50 B
C360	87-010-404-089		CAP,E 4.7-50 SME
C365	87-018-115-089		CAP,TC-U 47P-50 SL
C670	87-010-405-089		CAP,E 10-50 SME
C671	87-010-400-089		CAP,E 0.47-50 SME
C681	87-016-072-089		CAP,E 0.47-50 FX
C682	87-016-072-089		CAP,E 0.47-50 FX
C683	87-010-401-089		CAP,E 1-50 SME
C684	87-010-401-089		CAP,E 1-50 SME
C685	87-010-400-089		CAP,E 0.47-50 SME
C686	87-010-400-089		CAP,E 0.47-50 SME
C687	87-010-401-089		CAP,E 1-50 SME
C688	87-010-401-089		CAP,E 1-50 SME
C689	87-016-096-089		CAP,E 47-16 FX
C690	87-016-096-089		CAP,E 47-16 FX
C691	87-010-405-089		CAP,E 10-50 SME
C692	87-010-405-089		CAP,E 10-50 SME
C695	87-010-400-089		CAP,E 0.47-50 SME
C696	87-010-401-089		CAP,E 1-50 SME
C697	87-010-403-089		CAP,E 3.3-50 SME
C698	87-010-403-089		CAP,E 3.3-50 SME
C699	87-010-544-089		CAP,E 0.1-50
C701	87-010-405-089		CAP,E 10-50 SME
C702	87-010-405-089		CAP,E 10-50 SME
C703	87-018-128-089		CAP,TC-U 560P-50 B
C704	87-018-128-089		CAP,TC-U 560P-50 B
C705	87-010-404-089		CAP,E 4.7-50 SME
C706	87-010-404-089		CAP,E 4.7-50 SME
C750	87-010-405-089		CAP,E 10-50 SME
C751	87-010-374-089		CAP,E 47-10<EE>
C752	87-018-131-089		CAP,TC-U 1000P-50 B
C753	87-018-196-089		CAP,TC-U 1500P-16 X<K>
C756	87-018-214-089		CAP,TC-U 0.1-50 F<K>
C756	87-018-208-089		CAP,TC-U 0.047-50 F<EE>
C757	87-018-214-089		CAP,TC-U 0.1-50 F<K>
C757	87-018-208-089		CAP,TC-U 0.047-50 F<EE>
C758	87-010-408-089		CAP,E 47-50 SME
C759	87-010-374-089		CAP,E 47-10
C760	87-010-374-089		CAP,E 47-10
C761	87-018-111-089		CAP,TC-U 27P-50 SL
C762	87-018-111-089		CAP,TC-U 27P-50 SL
C763	87-010-260-089		CAP,E 47-25 SME

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C764	87-010-260-089		CAP,E 47-25 SME
C771	87-018-134-089		CAP,TC-U 0.01-16 Y<K>
C772	87-018-134-089		CAP,TC-U 0.01-16 Y<K>
C773	87-018-214-089		CAP,TC-U 0.1-50 F<K>
C775	87-018-123-089		CAP,TC-U 220P-50 B<K>
C776	87-018-123-089		CAP,TC-U 220P-50 B<K>
C780	87-018-132-089		CAP,TC-U 2200P-16 X<K>
C781	87-018-134-089		CAP,TC-U 0.01-16 Y<K>
C800	87-018-134-089		CAP,TC-U 0.01-16 Y
C801	87-018-209-089		CAP,TC-U 0.1-50 F<K>
C802	87-018-209-089		CAP,TC-U 0.1-50 F<K>
C803	87-018-209-089		CAP,TC-U 0.1-50 F<K>
CON328	84-VP1-632-019		CONN ASSY,6P C AMP
CON329	84-VP1-631-119		CONN ASSY,7PC CUT
EMI1	87-008-372-089		FLTR,EMI BL 01RN1
EMI2	87-008-372-089		FLTR,EMI BL 01RN1
EMI3	87-008-372-089		FLTR,EMI BL 01RN1<K>
EMI4	87-008-372-089		FLTR,EMI BL 01RN1<K>
EMI5	87-008-372-089		FLTR,EMI BL 01RN1<K>
FC326	85-VP1-619-019		CABLE,FFC 1.25-13P
J280	87-099-084-019		JACK,6.3 W/S
J281	87-099-064-019		JACK,6.3 W/S
J283	87-099-064-019		JACK,6.3 W/S
J750	81-VP1-634-019		JACK,PIN 3P
J751	81-VP1-634-019		JACK,PIN 3P
J752	81-VP1-634-019		JACK,PIN 3P
J753	87-009-393-019		JACK,PIN 2P EARTH
J754	87-009-063-019		CONN,11P FG
J756	87-009-063-419		CONN,11P FG (BLU)
J759	87-009-393-019		JACK,PIN 2P EARTH
J760	87-033-225-019		TERMINAL,SP-4P N
L750	87-005-366-019		COIL,1UH
L751	87-005-366-019		COIL,1UH<K>
L752	87-005-366-019		COIL,1UH<K>
L800	87-003-098-089		COIL,2.2UH<K>
L801	87-003-098-089		COIL,2.2UH<K>
R29	87-025-476-089		RES,NF 33-1/4WJ
R40	87-022-050-089		RES,METAL 1W-0.22J
R45	87-022-050-089		RES,METAL 1W-0.22J
R49	87-022-050-089		RES,METAL 1W-0.22J
R777	87-022-050-089		RES,METAL 1W-0.22J
R778	87-022-050-089		RES,METAL 1W-0.22J
R779	87-022-050-089		RES,METAL 1W-0.22J
R780	87-022-050-089		RES,METAL 1W-0.22J
R787	87-025-417-080		RES,NF 1-1/4W
RY1	87-045-285-010		RELAY,VB12MB
RY2	87-045-285-010		RELAY,VB12MB
RY3	87-045-344-010		RELAY,G5B-1 12V
VR141	84-VP2-632-019		VR,50KBX2 RK14K1210
VR281	81-VP1-622-019		VR,10KA RK11K112
VR282	81-VP1-622-019		VR,10KA RK11K112
VR372	81-VP1-627-019		VOL,100KW RK11K112
W1	82-VP2-634-119		F-CABLE 5P-2.5
W2	82-VP2-634-119		F-CABLE 5P-2.5

FRONT C.B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C1	87-010-401-089		CAP,E 1-50 SME
C2	87-010-401-089		CAP,E 1-50 SME
C3	87-010-405-089		CAP,E 10-50 SME
C4	87-016-088-049		CAP,E 220-6.3 SR
C5	87-010-263-089		CAP,E 100-10
C7	87-010-074-089		CAP,E 4.7-35 5L
C15	87-018-209-089		CAP,TC-U 0.1-50 F
C19	87-018-131-089		CAP,TC-U 1000P-50 B
C20	87-010-401-089		CAP,E 1-50 SME
C21	87-010-401-089		CAP,E 1-50 SME
C22	87-018-209-089		CAP,TC-U 0.1-50 F
C30	87-018-209-089		CAP,TC-U 0.1-50 F<K>
C31	87-018-134-089		CAP,TC-U 0.01-16 Y<K>

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C32	87-018-134-089		CAP,TC-U 0.01-16 Y<K>
C33	87-018-131-089		CAP,TC-U 1000P-50 B
FL1	84-VP1-630-019		FL,11BT135GK
L1	87-003-098-089		COIL,2.2UH
L2	87-003-098-089		COIL,2.2UH
L3	87-003-102-089		COIL,10UH
L4	87-005-153-089		COIL,47UH
S1	87-036-215-089		SW,TACT EVQ21404M
S2	87-036-215-089		SW,TACT EVQ21404M
S3	87-036-215-089		SW,TACT EVQ21404M
S4	87-036-215-089		SW,TACT EVQ21404M
S5	87-036-215-089		SW,TACT EVQ21404M
S6	87-036-215-089		SW,TACT EVQ21404M
S7	87-036-215-089		SW,TACT EVQ21404M
S8	87-036-215-089		SW,TACT EVQ21404M
S9	87-036-215-089		SW,TACT EVQ21404M
S10	87-036-215-089		SW,TACT EVQ21404M
S11	87-036-215-089		SW,TACT EVQ21404M
S12	87-036-215-089		SW,TACT EVQ21404M
S13	87-036-215-089		SW,TACT EVQ21404M
S14	87-036-215-089		SW,TACT EVQ21404M
S15	87-036-215-089		SW,TACT EVQ21404M
S16	87-036-215-089		SW,TACT EVQ21404M
S17	87-036-215-089		SW,TACT EVQ21404M
S18	87-036-215-089		SW,TACT EVQ21404M
S20	87-036-215-089		SW,TACT EVQ21404M
S21	87-036-215-089		SW,TACT EVQ21404M
S22	87-036-215-089		SW,TACT EVQ21404M
S23	87-036-215-089		SW,TACT EVQ21404M
S24	87-036-215-089		SW,TACT EVQ21404M
S25	87-036-215-089		SW,TACT EVQ21404M
S26	87-036-215-089		SW,TACT EVQ21404M
S27	87-036-215-089		SW,TACT EVQ21404M
S28	87-036-215-089		SW,TACT EVQ21404M
S29	87-036-215-089		SW,TACT EVQ21404M
S30	87-036-215-089		SW,TACT EVQ21404M
X1	87-008-506-089		VIB,CER 10.0MHZ CST

DOLBY C.B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C50	87-010-404-089		CAP,E 4.7-50 SME
C51	87-010-404-089		CAP,E 4.7-50 SME
C503	87-018-129-089		CAP,TC-U 680P-50 B
C504	87-018-129-089		CAP,TC-U 680P-50 B
C509	87-010-405-089		CAP,E 10-50 SME
C510	87-010-405-089		CAP,E 10-50 SME
C511	87-015-503-089		CAP,E 22-16 LL
C512	87-010-405-089		CAP,E 10-50 SME
C513	87-018-133-089		CAP,TC-U 4700P-16 X
C514	87-010-406-089		CAP,E 22-50 SME
C515	87-010-405-089		CAP,E 10-50 SME
C516	87-010-405-089		CAP,E 10-50 SME
C517	87-010-405-089		CAP,E 10-50 SME
C518	87-010-384-089		CAP,E 100-25 SME
C519	87-010-405-089		CAP,E 10-50 SME
C520	87-010-405-089		CAP,E 10-50 SME
C525	87-010-101-089		CAP,E 220-16 SME
C533	87-010-404-089		CAP,E 4.7-50 SME
C534	87-010-404-089		CAP,E 4.7-50 SME
C542	87-010-560-089		CAP,E 10-50 GAS
C544	87-010-404-089		CAP,E 4.7-50 SME
C545	87-018-119-089		CAP,TC-U 100P-50 B
C546	87-018-119-089		CAP,TC-U 100P-50 B
C547	87-010-404-089		CAP,E 4.7-50 SME
C549	87-010-404-089		CAP,E 4.7-50 SME
C550	87-018-119-089		CAP,TC-U 100P-50 B
C551	87-018-119-089		CAP,TC-U 100P-50 B
C552	87-010-404-089		CAP,E 4.7-50 SME
C553	87-018-119-089		CAP,TC-U 100P-50 B
C554	87-010-404-089		CAP,E 4.7-50 SME

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C555	87-010-074-049		CAP,E 4.7-35 5L
C556	87-018-195-089		CAP,TC-U 1200P-16 X
C557	87-018-195-089		CAP,TC-U 1200P-16 X
C558	87-010-404-089		CAP,E 4.7-50 SME
C559	87-010-074-089		CAP,E 4.7-35 5L
C560	87-018-111-089		CAP,TC-U 27P-50 SL
C561	87-018-203-089		CAP,TC-U 8200P-16 Y
C562	87-010-260-089		CAP,E 47-25 SME
C563	87-010-260-089		CAP,E 47-25 SME
C564	87-018-209-089		CAP,TC-U 0.1-50 F
C565	87-018-209-089		CAP,TC-U 0.1-50 F
C566	87-010-404-089		CAP,E 4.7-50 SME
C568	87-010-404-089		CAP,E 4.7-50 SME

DSP C.B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C900	87-010-194-089		C-CAP,S 0.047-25 F
C902	87-010-194-089		C-CAP,S 0.047-25 F
C903	87-012-349-089		C-CAP,S 1000P-50 CH
C904	87-012-349-089		C-CAP,S 1000P-50 CH
C905	87-010-234-089		CAP,E 47-16 5L
C906	87-010-234-089		CAP,E 47-16 5L
C907	87-012-349-089		C-CAP,S 1000P-50 CH
C908	87-012-349-089		C-CAP,S 1000P-50 CH
C911	87-016-264-089		C-CAP,TN4.7-6.3F95Q
C912	87-010-805-089		C-CAP,S 1-16F
C913	87-010-263-089		CAP,E 100-10
C915	87-016-264-089		C-CAP,TN4.7-6.3F95Q
C916	87-010-196-089		C-CAP,S 0.1-25 F
C917	87-010-196-089		C-CAP,S 0.1-25 F
C918	87-010-293-089		C-CAP,47P-50 CH
C919	87-010-194-089		C-CAP,S 0.047-25 F
C920	87-010-197-089		C-CAP,S 0.01-25 B
C921	87-010-075-089		CAP,E 10-16 5L
C922	87-010-075-089		CAP,E 10-16 5L
C923	87-010-318-089		C-CAP,S 47P-50 CH
C924	87-010-318-089		C-CAP,S 47P-50 CH
C925	87-010-196-089		C-CAP,S 0.1-25 F
C926	87-010-401-089		CAP,E 1-50 SME
C927	87-010-405-089		CAP,E 10-50 SME
C928	87-010-197-089		C-CAP,S 0.01-25 B
C929	87-010-196-089		C-CAP,S 0.1-25 F
C930	87-010-196-089		C-CAP,S 0.1-25 F
C931	87-010-405-089		CAP,E 10-50 SME
C933	87-010-322-089		C-CAP,S 100P-50 CH
C934	87-010-194-089		C-CAP,S 0.047-25 F
C936	87-010-197-089		C-CAP,S 0.01-25 B
C937	87-010-317-089		C-CAP,S 39P-50 CH
C938	87-010-317-089		C-CAP,S 39P-50 CH
C939	87-010-405-089		CAP,E 10-50 SME
C940	87-010-196-089		C-CAP,S 0.1-25 F
C941	87-010-318-089		C-CAP,S 47P-50 CH
C942	87-010-404-089		CAP,E 4.7-50 SME
C943	87-010-197-089		C-CAP,S 0.01-25 B
C944	87-010-194-089		C-CAP,S 0.047-25 F
C945	87-010-197-089		C-CAP,S 0.01-25 B
C946	87-010-404-089		CAP,E 4.7-50 SME
C947	87-010-197-089		C-CAP,S 0.01-25 B
C948	87-010-404-089		CAP,E 4.7-50 SME
C949	87-010-404-089		CAP,E 4.7-50 SME
C950	87-010-196-089		C-CAP,S 0.1-25 F
C951	87-010-194-089		C-CAP,S 0.047-25 F
C952	87-015-819-089		CHIP CAP 0.01
C956	87-010-197-089		C-CAP,S 0.01-25 B
C960	87-010-194-089		C-CAP,S 0.047-25 F
C961	87-012-157-089		C-CAP,S 330P-50 CH
C966	87-010-805-089		C-CAP,S 1-16F
C967	87-010-405-089		CAP,E 10-50 SME
C970	87-010-263-089		CAP,E 100-10
C971	87-016-264-089		C-CAP,TN4.7-6.3F95Q
C972	87-016-264-089		C-CAP,TN4.7-6.3F95Q

REF.NO	PART NO.	カンリ NO.	DESCRIPTION
C973	87-010-197-089		C-CAP,S 0.01-25 B
C974	87-010-401-089		CAP,E 1-50 SME
C975	87-010-197-089		C-CAP,S 0.01-25 B
C976	87-010-318-089		C-CAP,S 47P-50 CH
C977	87-010-194-089		C-CAP,S 0.047-25 F
C979	87-010-263-089		CAP,E 100-10
C980	87-010-263-089		CAP,E 100-10
C981	87-010-263-089		CAP,E 100-10
C982	87-010-263-089		CAP,E 100-10
C985	87-010-260-089		CAP,E 47-25 SME
C987	87-010-307-089		C-CAP,680P-50 CH
C988	87-010-176-089		C-CAP,S 680P-50 SL
C989	87-010-183-089		C-CAP,S 2700P-50 B
C990	87-010-183-089		C-CAP,S 2700P-50 B
C992	87-010-260-089		CAP,E 47-25 SME
C993	87-010-404-089		CAP,E 4.7-50 SME
C994	87-010-404-089		CAP,E 4.7-50 SME
C997	87-010-320-089		C-CAP,S 68P-50 CH
C998	87-010-320-089		C-CAP,S 68P-50 CH
C999	87-010-320-089		C-CAP,S 68P-50 CH
FB1	87-005-521-089		C-COIL,BLM32A06(EMI)
FB2	87-005-521-089		C-COIL,BLM32A06(EMI)
FB3	87-008-372-089		FLTR,EMI BL OIRNI
FB4	87-008-372-089		FLTR,EMI BL OIRNI
FB5	87-008-372-089		FLTR,EMI BL OIRNI
FB6	87-008-372-089		FLTR,EMI BL OIRNI
FB7	87-005-521-089		C-COIL,BLM32A06(EMI)
L901	87-005-153-089		COIL,47UH
L903	87-005-153-089		COIL,47UH
L904	87-005-153-089		COIL,47UH
X901	87-030-310-089		VIB,XTAL 22.5792MHZ
X902	87-008-394-089		CF CST 4.19 MGW

VOLUME C.B

REF.NO	PART NO.	カンリ NO.	DESCRIPTION
C201	87-010-405-089		CAP,E 10-50 SME
C202	87-010-405-089		CAP,E 10-50 SME
C203	87-010-405-089		CAP,E 10-50 SME
C204	87-010-405-089		CAP,E 10-50 SME
C205	87-010-404-089		CAP,E 4.7-50 SME
C206	87-010-404-089		CAP,E 4.7-50 SME
C207	87-018-205-089		CAP,TC-U 0.022-25 F
C209	87-018-119-089		CAP,TC-U 100P-50 B
C210	87-018-119-089		CAP,TC-U 100P-50 B
VR1	82-VP1-633-019		VR,50KBX4,100KCX1 W/M

IC2 C.B

REF.NO	PART NO.	カンリ NO.	DESCRIPTION
C740	87-010-405-089		CAP,E 10-50 SME
C741	87-010-374-089		CAP,E 47-10
C742	87-018-131-089		CAP,TC-U 1000P-50 B
C746	87-018-214-089		CAP,TC-U 0.1-50 F
C747	87-018-214-089		CAP,TC-U 0.1-50 F
C748	87-018-196-089		CAP,TC-U 1500P-16 X
C782	87-018-214-089		CAP,TC-U 0.1-50 F
C783	87-018-214-089		CAP,TC-U 0.1-50 F

FG-GEQ C.B

REF.NO	PART NO.	カンリ NO.	DESCRIPTION
C34	87-018-134-089		CAP,TC-U 0.01-16 Y<K>
C35	87-018-134-089		CAP,TC-U 0.01-16 Y<K>
C37	87-018-199-089		CAP,TC-U 3300P-16 X<K>
C749	87-018-134-089		CAP,TC-U 0.01-16 Y<K>
J761	84-VP1-638-019		JACK,PIN 2P BK,OR
PT2	82-VP1-630-019		PT,2VP-1 FL
RY4	87-045-344-010		RELAY,G5B-1 12V

IC1 C.B

REF.NO	PART NO.	カンリ NO.	DESCRIPTION
	87-085-228-010		SPACER,3T-9

TR C.B

AC1 C.B

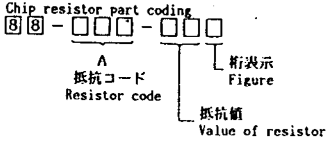
REF.NO	PART NO.	カンリ NO.	DESCRIPTION
⚠	87-050-100-019		AC-CORD ASSY K3P<K>
⚠	87-050-034-019		AC-CORD ASSY,E<EE>
⚠	87-085-185-010		BUSHING,AC CORD E
⚠	87-080-036-010		CAPACITOR COVER<K>
⚠	82-304-743-019		TERMINAL,1P
⚠C90	87-019-112-019		CAP,SG 0.01 E<K>

AC2 C.B

REF.NO	PART NO.	カンリ NO.	DESCRIPTION
⚠CF1	87-033-213-089		CLAMP FUSE SMK
⚠CF2	87-033-213-089		CLAMP FUSE SMK
⚠F1	87-035-367-019		FUSE,3.15A 250V T E
⚠PT1	84-VP1-608-019		PT,4VP-1 E,K
R96	87-022-200-089		RES,METAL 0.56-1W
R97	87-022-200-089		RES,METAL 0.56-1W

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

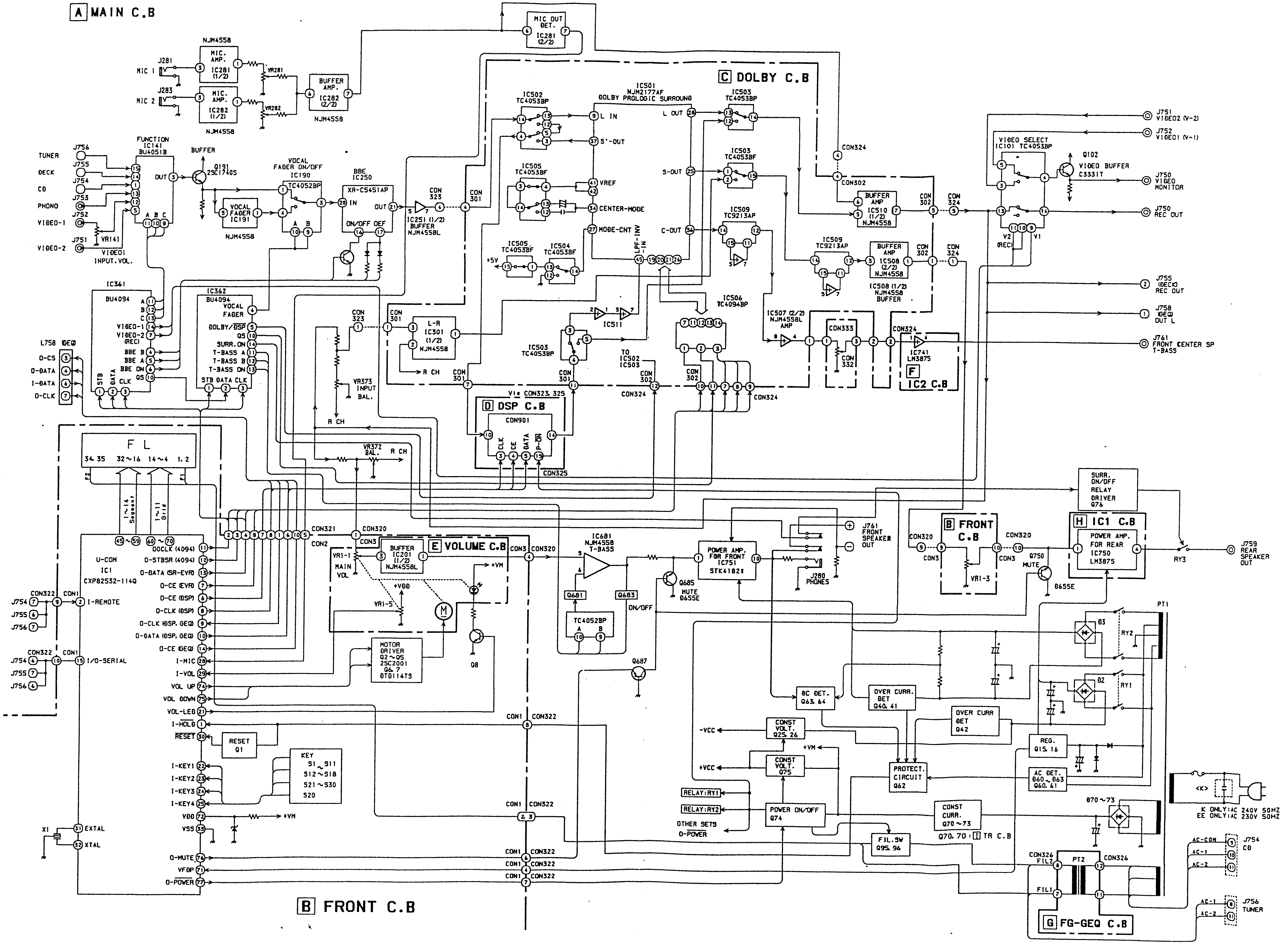
チップ抵抗部品コードの成り立ち
Chip resistor part coding



チップ抵抗
Chip resistor

Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Dimensions／寸法(mm)				Resistor Code : A 抵抗コード : A
				Form/外形	L	W	t	
1/32W	1608	±5%	CJ		1.6	0.8	0.35	108
1/10W	2125	±5%	CJ		2	1.25	1.45	118
1/8W	3216	±5%	CJ		3.2	1.6	0.5 ~0.7	128

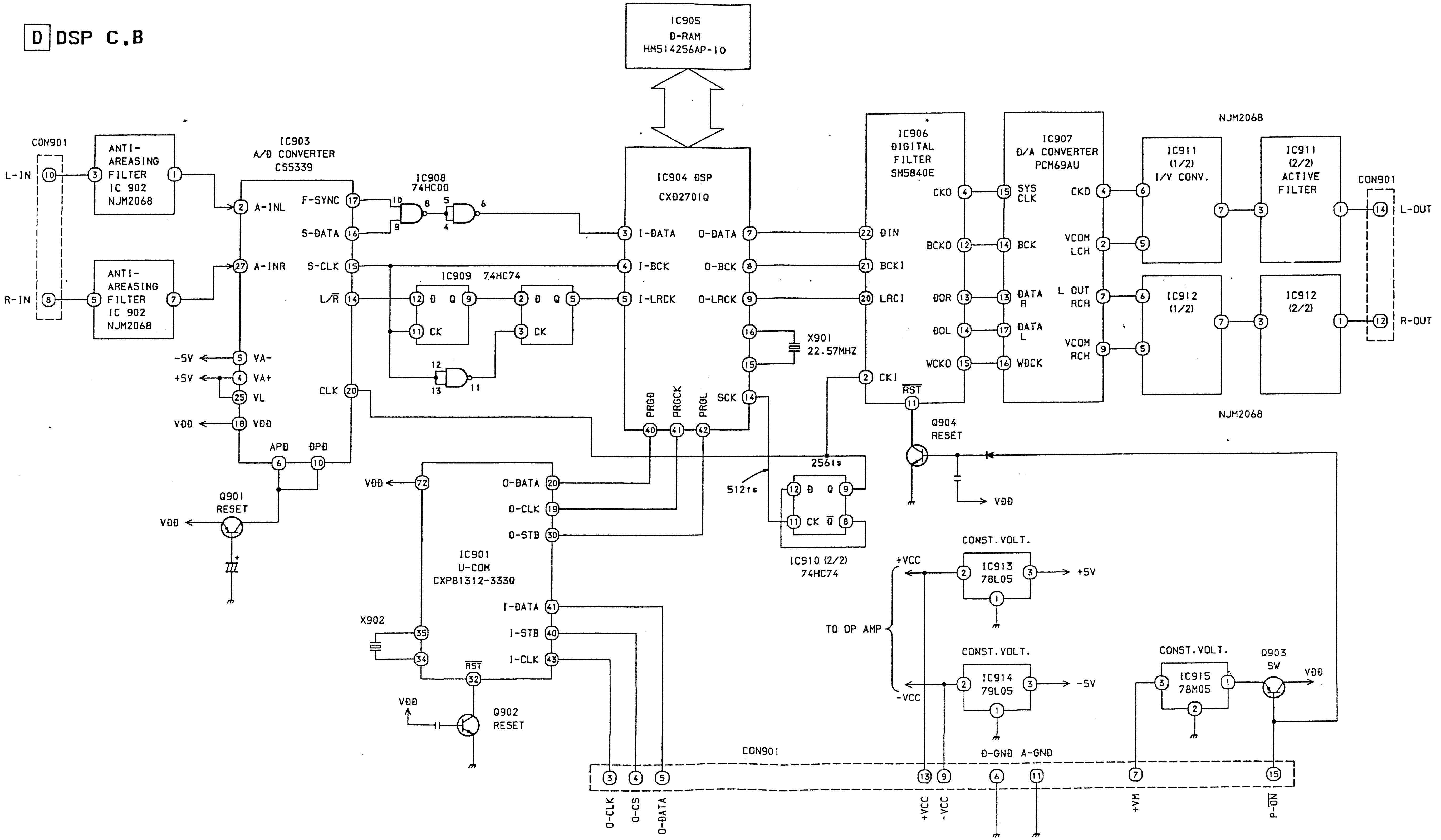
BLOCK DIAGRAM – 1 (MX-Z9300M)

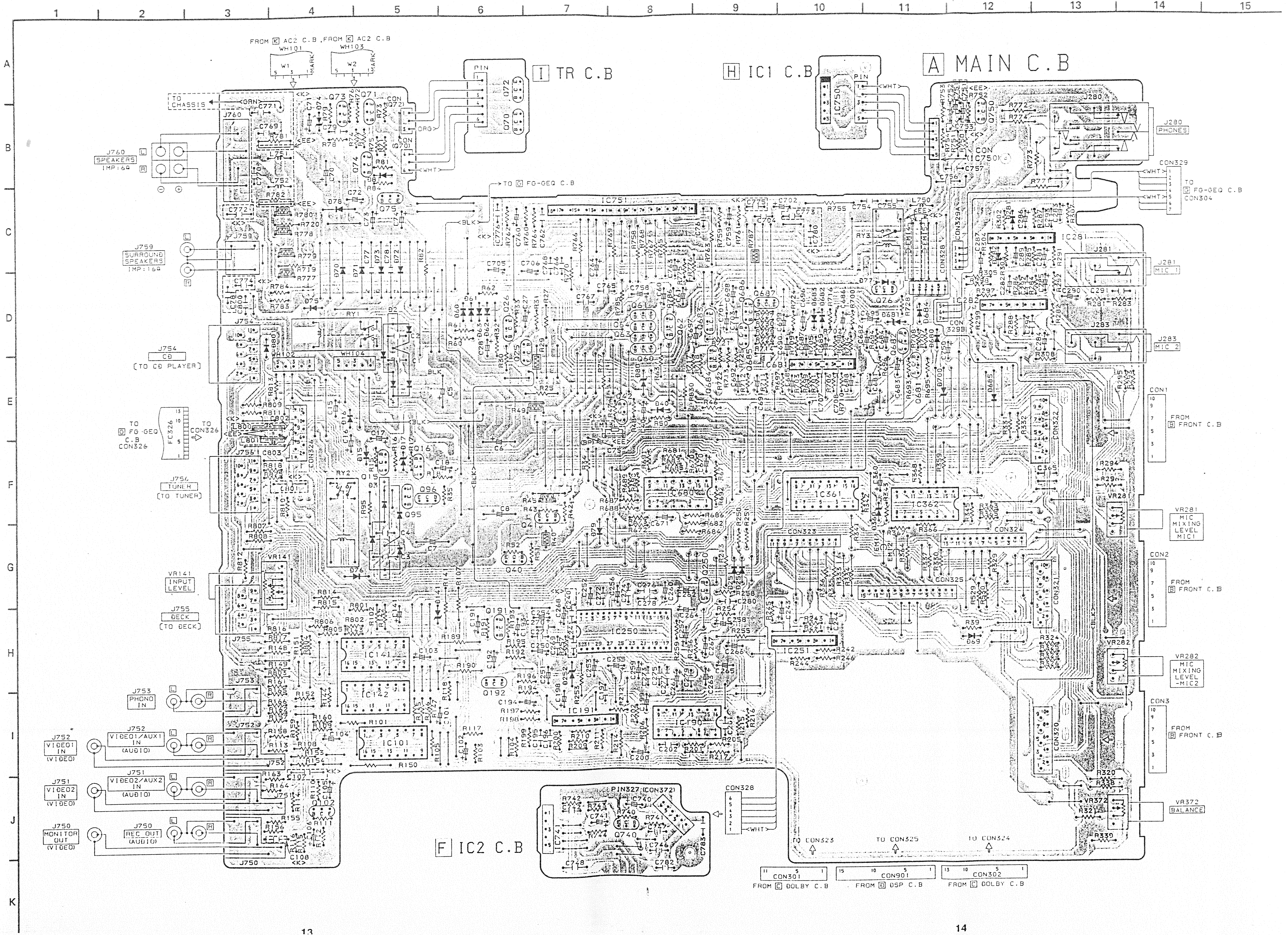


A MAIN C.B
C DOLBY C.B
D DSP C.B
E VOLUME C.B
F IC2 C.B
B FRONT C.B
H IC1 C.B
G FG-GEQ C.B
MIC 1
MIC 2
J281
J283
MIC. AMP. IC281 (1/2)
MIC. AMP. IC282 (1/2)
NJM4558
VR281
VR282
BUFFER AMP. IC282 (2/2)
MIC OUT DET. IC281 (2/2)
TUNER
DECK
CD
PHONO
VIDEO-1
VIDEO-2
J756
J755
J754
J753
J752
J751
VR141
VIDEO1 INPUT.VOL.
FUNCTION IC141 BU4051B
BUFFER
Q191 2SC1740S
VOCAL FADER ON/OFF IC190 TC4052BP
VOCAL FADER IC191
BBE IC250 XR-C5451AP
ON/OFF DEF
IC251 (1/2) BUFFER NJM4558L
CON 323
CON 301
IC502 TC4053BP
IC501 NJM2177AF DOLBY PROLOGIC SURROUND
L IN
S'-OUT
VREF
CENTER-MODE
MODE-CNT
L OUT
S-OUT
C-OUT
LPF-INV
IC503 TC4053BP
IC503 TC4053BF
IC505 TC4053BF
IC504 TC4053BF
IC509 TC9213AP
IC506 TC4094BP
IC511
IC301 (1/2) NJM4558
L-R
R CH
VR373 INPUT BAL.
VR372 BAL.
IC361 BU4094
IC362 BU4094 VOCAL FADER
DOLBY/DSP
QS
SURR. ON
T-BASS A
T-BASS B
T-BASS ON
STB DATA CLK
VIDEO-1
VIDEO-2 (REC)
BBE B
BBE A
BBE ON
L758 (GEQ)
O-CS
O-DATA
I-DATA
O-CLK
CON324
CON302
BUFFER AMP IC510 (1/2) NJM4558
BUFFER AMP IC508 (2/2) NJM4558
IC508 (1/2) NJM4558 BUFFER
IC507 (2/2) NJM4558L AMP
CON333
CON332
IC741 LM3875
DSP C.B CON901
CLK CE DATA P-ON
CON325
V1& CON323, 325
VIDEO SELECT IC101 TC4053BP
Q102 VIDEO BUFFER C3331T
J751 VIDEO2 (V-2)
J752 VIDEO1 (V-1)
J750 VIDEO MONITOR
J750 REC OUT
J755 (DECK) REC OUT
J758 (GEQ) OUT L
J761 FRONT CENTER SP T-BASS
F L
34, 35 32~16 14~4 1, 2
1~14 Segment
1~11 Grid
U-COM IC1 CXP82532-114Q
I-REMOTE
I/O-SERIAL
DOCLK (4094)
O-STBSR (4094)
O-DATA (SR-EVR)
O-CE (EVR)
O-CE (DSP)
O-CLK (DSP)
O-CLK (DSP, GEQ)
O-DATA (DSP, GEQ)
O-CE (GEQ)
I-MIC
I-VOL
VOL UP
VOL DOWN
VOL-LED
I-HOLD
RESET
RESET Q1
I-KEY1
I-KEY2
I-KEY3
I-KEY4
KEY S1~S11 S12~S18 S21~S30 S20
VDD
VSS
+VM
X1
EXTAL
XTAL
O-MUTE
VFDP
O-POWER
CON321
CON320
CON322
CON1
CON2
CON3
BUFFER IC201 (1/2) NJM4558L
VR1-1 MAIN VOL
VR1-5
+VDD
MOTOR DRIVER Q2~Q5 2SC2001 Q6, 7 DTD114TS
Q8
IC681 NJM4558 T-BASS
Q681
Q683
TC4052BP
ON/OFF
Q685 MUTE DQ55E
Q687
POWER AMP. FOR FRONT IC751 STK4182II
J761 FRONT SPEAKER OUT
J280 PHONES
FRONT C.B
VR1-3
Q750 MUTE
POWER AMP. FOR REAR IC750 LM3875
SURR. ON/OFF RELAY DRIVER Q76
RY3
J759 REAR SPEAKER OUT
PT1
D3
D2
RY2
RY1
DC DET. Q63, 64
OVER CURR. DET Q40, 41
OVER CURR DET Q42
REG. Q15, 16
CONST VOLT. Q25, 26
CONST VOLT. Q75
-VCC
+VCC
PROTECT. CIRCUIT Q62
AC DET. Q60~Q63 Q60, 61
RELAY:RY1
RELAY:RY2
OTHER SETS O-POWER
POWER ON/OFF Q74
CONST CURR. Q70~73
Q70, 70 : I TR C.B
D70~73
FIL.SW Q95, 96
CON326
FIL2
FIL1
PT2
<K>
K ONLY:AC 240V 50HZ
EE ONLY:AC 230V 50HZ
AC-CON
AC-1
AC-2
J754 CD
J756 TUNER

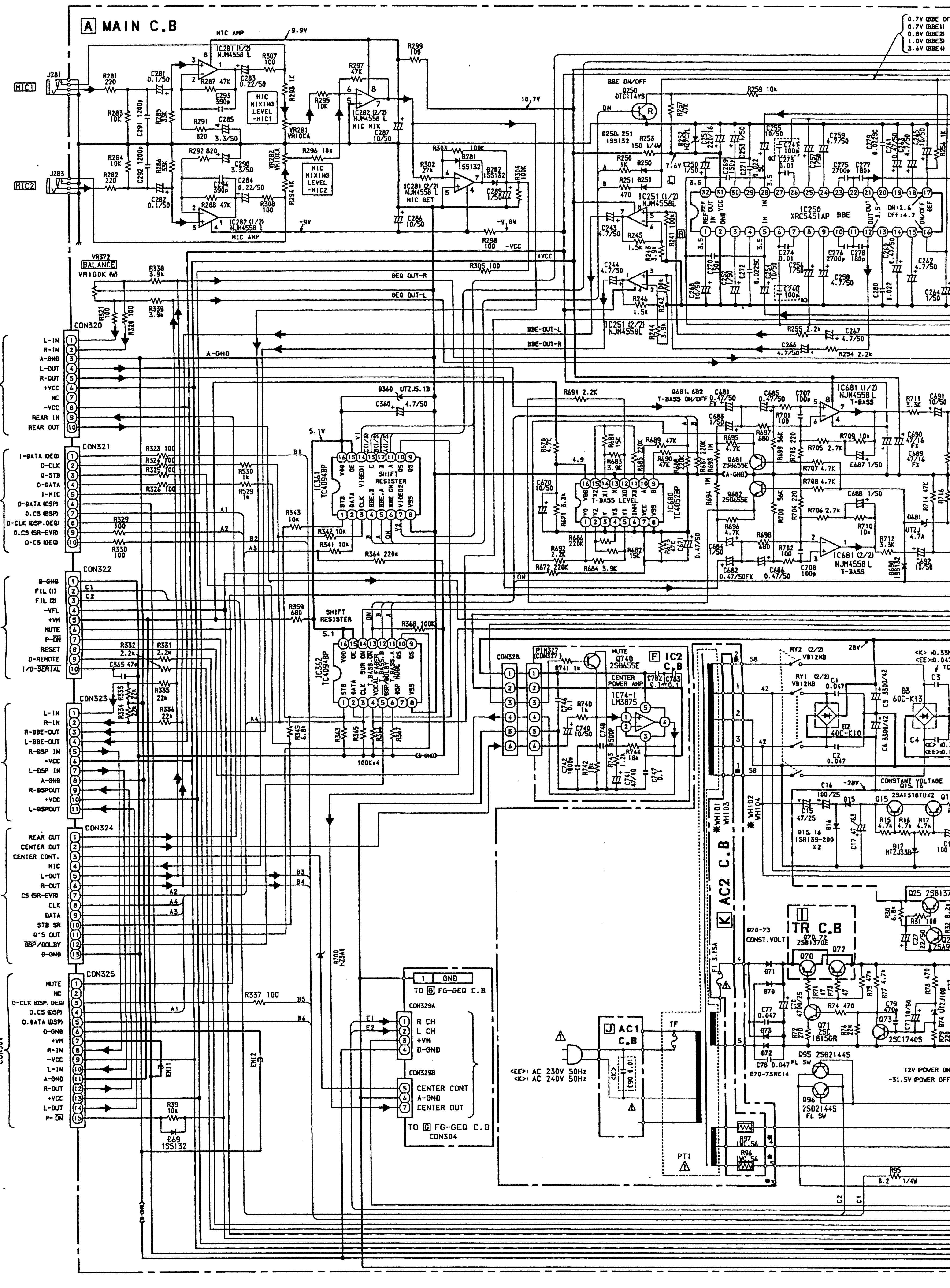
BLOCK DIAGRAM – 2 (MX-Z9300M)

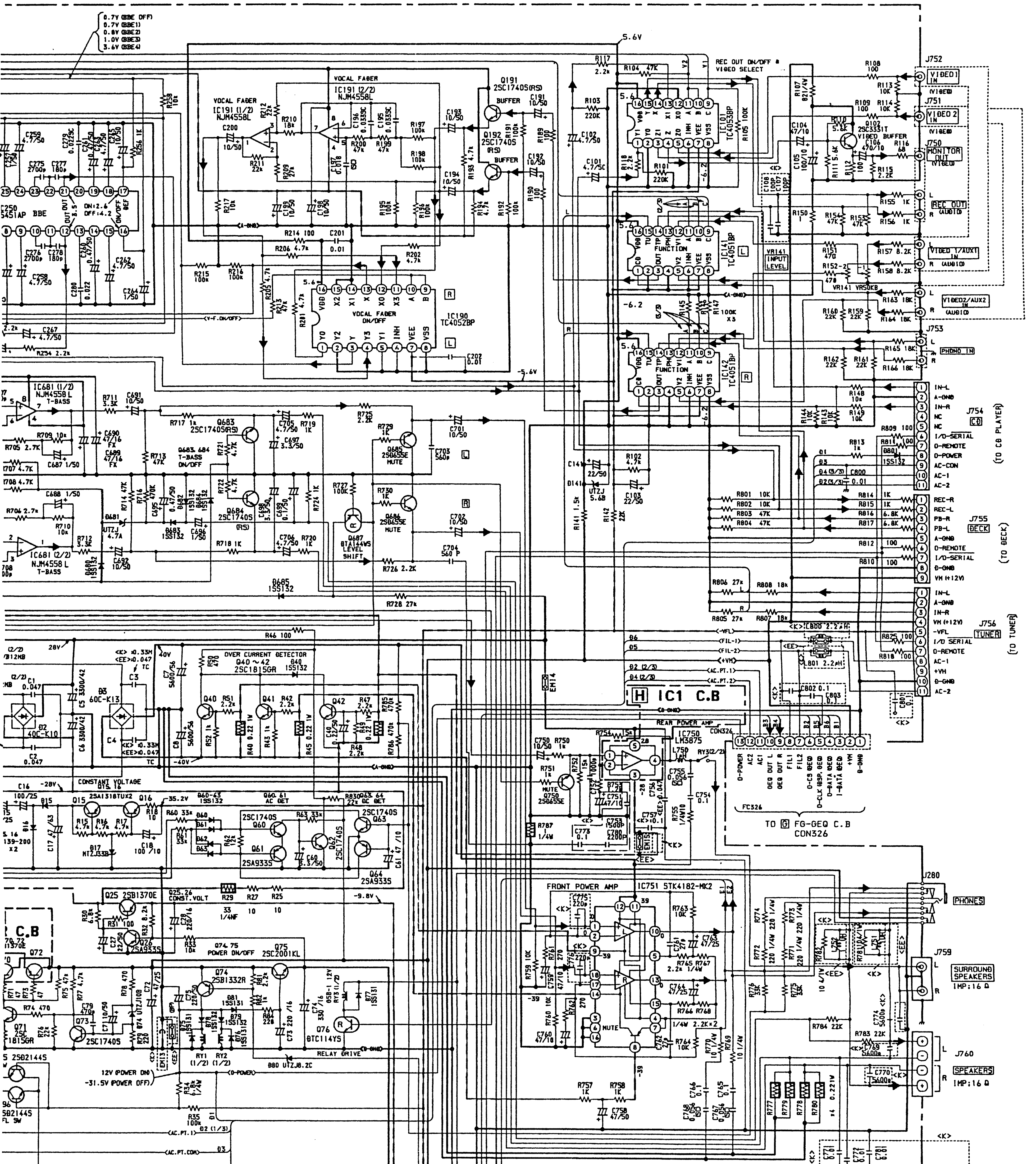
D DSP C.B


CON901
L-IN
R-IN
ANTI-AREASING FILTER IC 902 NJM2068
ANTI-AREASING FILTER IC 902 NJM2068
IC903 A/D CONVERTER CS5339
A-INL
A-INR
F-SYNC
S-DATA
S-CLK
L/R
CLK
VA-
VA+
VL
VDD
-5V
+5V
VDD
APD
DPD
Q901 RESET
VDD
IC908 74HC00
IC909 74HC74
D Q
CK
IC905 D-RAM HM514256AP-10
IC904 DSP CXD2701Q
I-DATA
I-BCK
I-LRCK
O-DATA
O-BCK
O-LRCK
X901 22.57MHZ
PRGD
PRGCK
PRGL
SCK
256fs
512fs
IC910 (2/2) 74HC74
D Q
CK Q
IC901 U-COM CXP81312-333Q
VDD
O-DATA
O-CLK
O-STB
I-DATA
I-STB
I-CLK
RST
X902
VDD
Q902 RESET
IC906 DIGITAL FILTER SM5840E
DIN
BCKI
LRCI
CKI
RST
CKO
BCKO
DOR
DOL
WCKO
IC907 D/A CONVERTER PCM69AU
SYS CLK
BCK
DATA R
DATA L
WDCK
CKO
VCOM LCH
L OUT RCH
VCOM RCH
Q904 RESET
VDD
NJM2068
IC911 (1/2) I/V CONV.
IC911 (2/2) ACTIVE FILTER
IC912 (1/2)
IC912 (2/2)
NJM2068
CON901
L-OUT
R-OUT
CONST.VOLT.
IC913 78L05
+VCC
+5V
TO OP AMP
CONST.VOLT.
IC914 79L05
-VCC
-5V
CONST.VOLT.
IC915 78M05
Q903 SW
VDD
CON901
D-GND A-GND
O-CLK
O-CS
O-DATA
+VCC
-VCC
+VM
P-ON

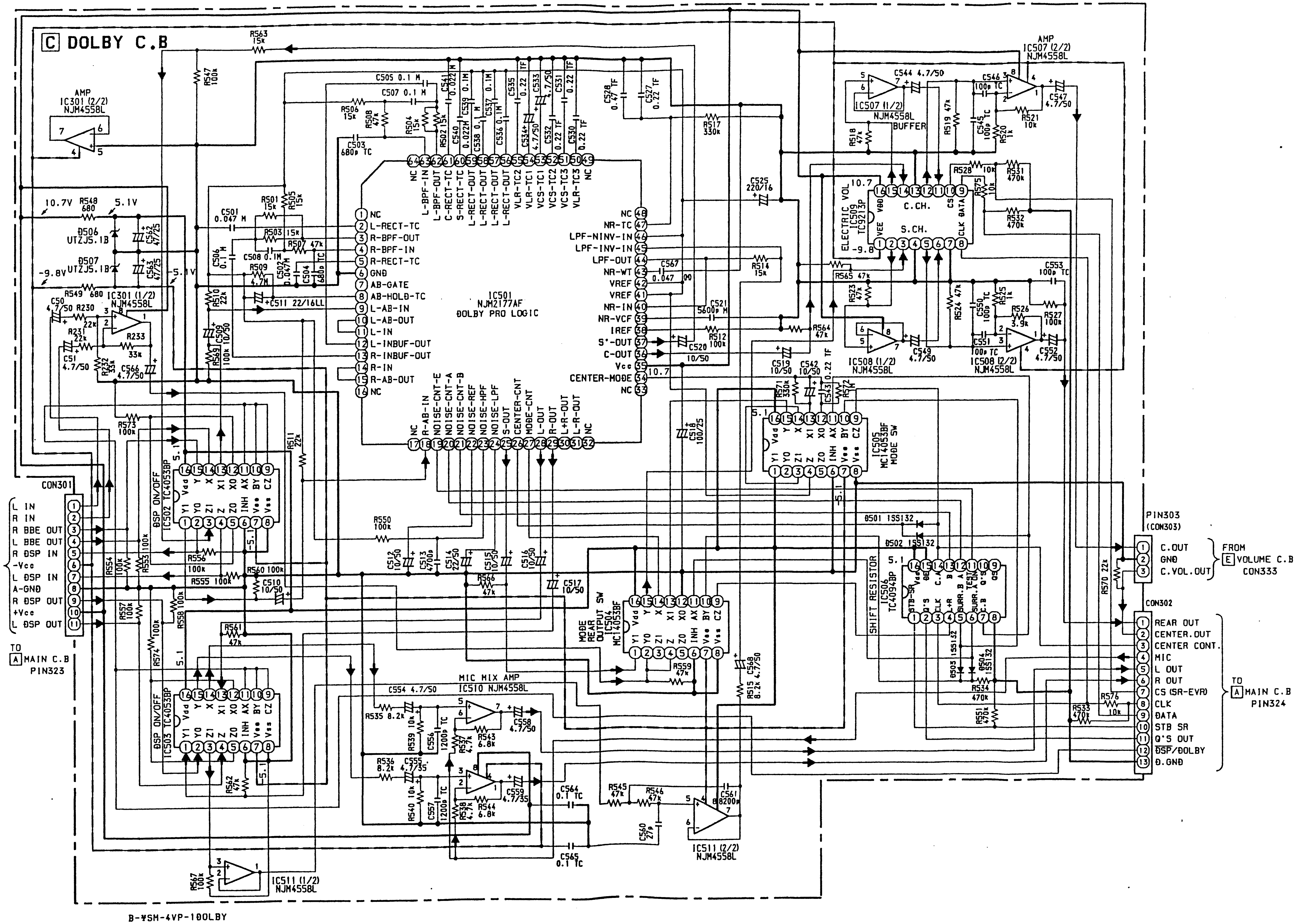

A MAIN C.B
I TR C.B
H IC1 C.B
F IC2 C.B
FROM K AC2 C.B WH101
FROM K AC2 C.B WH103
TO CHASSIS
TO G FG-GEQ C.B
J760 SPEAKERS IMP:6Ω
J759 SURROUND SPEAKERS IMP:16Ω
J754 CD (TO CD PLAYER)
TO G FG-GEQ C.B CON326
FC326
TO CON326
J756 TUNER (TO TUNER)
VR141 INPUT LEVEL
J755 DECK (TO DECK)
J753 PHONO IN
J752 VIDEO1 IN (VIDEO)
J752 VIDEO1/AUX1 IN (AUDIO)
J751 VIDEO2 IN (VIDEO)
J751 VIDEO2/AUX2 IN (AUDIO)
J750 MONITOR OUT (VIDEO)
J750 REC OUT (AUDIO)
PIN327 (CON372)
CON328
J280 PHONES
CON329
TO G FG-GEQ C.B CON304
J281 MIC 1
J283 MIC 2
CON1 FROM B FRONT C.B
CON2 FROM B FRONT C.B
CON3 FROM B FRONT C.B
VR281 MIC MIXING LEVEL MIC1
VR282 MIC MIXING LEVEL -MIC2
VR372 BALANCE
TO CON323
TO CON325
TO CON324
CON301 FROM C DOLBY C.B
CON901 FROM D DSP C.B
CON302 FROM C DOLBY C.B
IC751
IC281
IC680
IC361
IC362
IC141
IC142
IC101
IC250
IC251
IC191
IC190
RY1
RY2
RY3

SCHEMATIC DIAGRAM – 1 (MX-Z9300M)

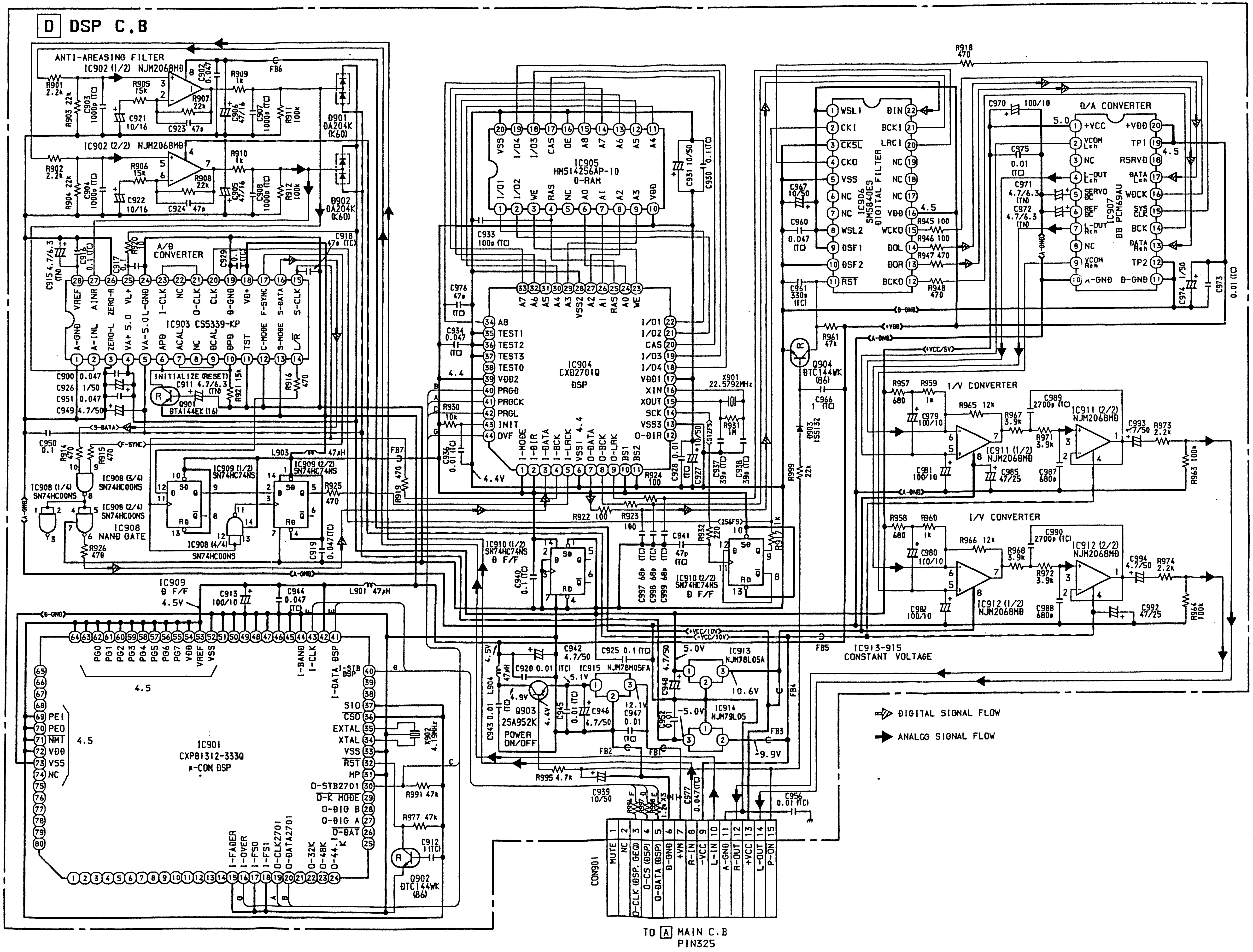

A MAIN C.B
MIC1
MIC2
J281
J283
MIC AMP
IC281 (1/2) NJM4558 L
IC282 (1/2) NJM4558 L
IC282 (2/2) NJM4558 L
MIC MIX
IC281 (2/2) NJM4558 L
MIC BET
MIC MIXING LEVEL -MIC1
MIC MIXING LEVEL -MIC2
VR281 VR10KA
VR282 VR10KA
9.9V
-9V
-9.8V
10.7V
+VCC
-VCC
VR372 BALANCE VR100K (W)
GEQ OUT-R
GEQ OUT-L
BBE ON/OFF
Q250 DTC114YS
IC250 XRC5451AP BBE
IC251 (1/2) NJM4558L
IC251 (2/2) NJM4558L
BBE-OUT-L
BBE-OUT-R
A-GND
0.7V (BBE OFF)
0.7V (BBE1)
0.8V (BBE2)
1.0V (BBE3)
3.6V (BBE4)
ON:2.6
OFF:4.2
CON320
L-IN
R-IN
A-GND
L-OUT
R-OUT
+VCC
NC
-VCC
REAR IN
REAR OUT
FROM B FRONT C.B CON3
CON321
I-DATA (GEQ)
D-CLK
D-STB
D-DATA
I-MIC
O-DATA (DSP)
O.CS (DSP)
D-CLK (DSP, GEQ)
O.CS (SR-EVR)
D-CS (GEQ)
FROM B FRONT C.B CON2
CON322
D-GND
FIL (1)
FIL (2)
-VFL
+VM
MUTE
P-ON
RESET
D-REMOTE
I/O-SERIAL
FROM B FRONT C.B CON1
IC361 TC4094BP
SHIFT RESISTER
IC362 TC4094BP
D360 UTZJ5.1B
5.1V
T-BASS ON/OFF
Q681, 682
IC681 (1/2) NJM4558 L T-BASS
IC681 (2/2) NJM4558 L T-BASS
IC680 TC4052BP
T-BASS LEVEL
Q681 2SD655E
Q682 2SD655E
CON323
L-IN
R-IN
R-BBE-OUT
L-BBE-OUT
R-DSP IN
-VCC
L-DSP IN
A-GND
R-DSPOUT
+VCC
L-DSPOUT
FROM C DOLBY C.B CON301
CON324
REAR OUT
CENTER OUT
CENTER CONT.
MIC
L-OUT
R-OUT
CS (SR-EVR)
CLK
DATA
STB SR
Q'S OUT
DSP/DOLBY
D-GND
FROM C DOLBY C.B CON302
CON325
MUTE
NC
D-CLK (DSP, GEQ)
D.CS (DSP)
D.DATA (DSP)
D-GND
+VM
R-IN
-VCC
L-IN
A-GND
R-OUT
+VCC
L-OUT
P-ON
FROM D DSP C.B CON901
CON328
P1N327 (CON327)
MUTE Q740 2SD655E
F IC2 C.B
CENTER POWER AMP
IC74-1 LM3875
TO G FG-GEQ C.B
CON329A
R CH
L CH
+VM
D-GND
CON329B
CENTER CONT
A-GND
CENTER OUT
TO G FG-GEQ C.B CON304
D700 HZ3A1
D69 1SS132
EM11
EM12
J AC1 C.B
<EE>: AC 230V 50Hz
<K>: AC 240V 50Hz
TF
PT1
K AC2 C.B
WH101
WH103
WH102
WH104
F1 3.15A
RY1 (1/2) VB12MB
RY2 (2/2) VB12MB
28V
-28V
D2 40C-K10
D3 60C-K13
CONSTANT VOLTAGE
Q15 2SA1318TUX2
D15, 16 1SR139-200 x2
D17 MTZJ33B
Q25 2SB1370E
I TR C.B
Q70-73 CONST. VOLT
Q70, 72 2SB1370E
Q71 2SC1815GR
Q73 2SC1740S
Q95 2SD2144S FL SW
Q96 2SD2144S FL SW
D70-73RK14
12V (POWER ON)
-31.5V (POWER OFF)
R95 8.2 1/4W


0.7V (BBE OFF)
0.7V (BBE1)
0.8V (BBE2)
1.0V (BBE3)
3.6V (BBE4)
VOCAL FADER
IC191 (1/2) NJM4558L
IC191 (2/2) NJM4558L
Q191 2SC1740S(RS) BUFFER
Q192 2SC1740S (RS) BUFFER
IC190 TC4052BP
VOCAL FADER ON/OFF
IC250 451AP BBE
REC OUT ON/OFF & VIDEO SELECT
IC101 TC4053BP
IC141 TC4051BP FUNCTION
IC142 TC4051BP FUNCTION
VR141 INPUT LEVEL
Q102 2SC3331T VIDEO BUFFER
J752 VIDEO1 IN
J751 VIDEO2 IN
J750 MONITOR OUT
REC OUT
VIDEO 1/AUX1
VIDEO2/AUX2 IN
J753 PHONO IN
IC681 (1/2) NJM4558 L T-BASS
IC681 (2/2) NJM4558 L T-BASS
Q683 2SC1740S(RS)
Q684 2SC1740S (RS)
Q683, 684 T-BASS ON/OFF
Q685 2SD655E MUTE
Q686 2SD655E MUTE
Q687 BTA144WS LEVEL SHIFT
J754 CD (TO CD PLAYER)
J755 DECK (TO DECK)
J756 TUNER (TO TUNER)
IN-L
A-GND
IN-R
I/O-SERIAL
D-REMOTE
D-POWER
AC-CON
AC-1
AC-2
REC-R
REC-L
PB-R
PB-L
D-GND
VH (+12V)
-VFL
+VH
H IC1 C.B
OVER CURRENT DETECTOR
Q40 ~ 42 2SC1815GR
D40 1SS132
CONSTANT VOLTAGE
Q15 2SA1318TUX2
Q16
D60~63 1SS132 AC DET
Q60, 61 AC DET
Q63, 64 DC DET
Q60 2SC1740S
Q61 2SA933S
Q62 2SC1740S
Q63 2SC1740S
Q64 2SA933S
Q25 2SB1370E
Q25, 26 CONST. VOLT
Q26 2SA933S
Q74, 75 POWER ON/OFF
Q74 2SB1332R
Q75 2SC2001KL
Q76 DTC114YS
RELAY DRIVE
12V (POWER ON)
-31.5V (POWER OFF)
REAR POWER AMP
IC750 LM3875
Q750 2SD655E MUTE
TO G FG-GEQ C.B CON326
FC326
D-POWER
AC2
AC1
GEQ OUT L
GEQ OUT R
FIL1
FIL2
D-CS GEQ
D-CLK (SP. GEQ)
D-DATA GEQ
I-DATA GEQ
+VH
D-GND
FRONT POWER AMP
IC751 STK4182-MK2
MUTE
J280 PHONES
J759 SURROUND SPEAKERS IMP: 16 Ω
J760 SPEAKERS IMP: 16 Ω
GND
TO CHASSIS
C.B

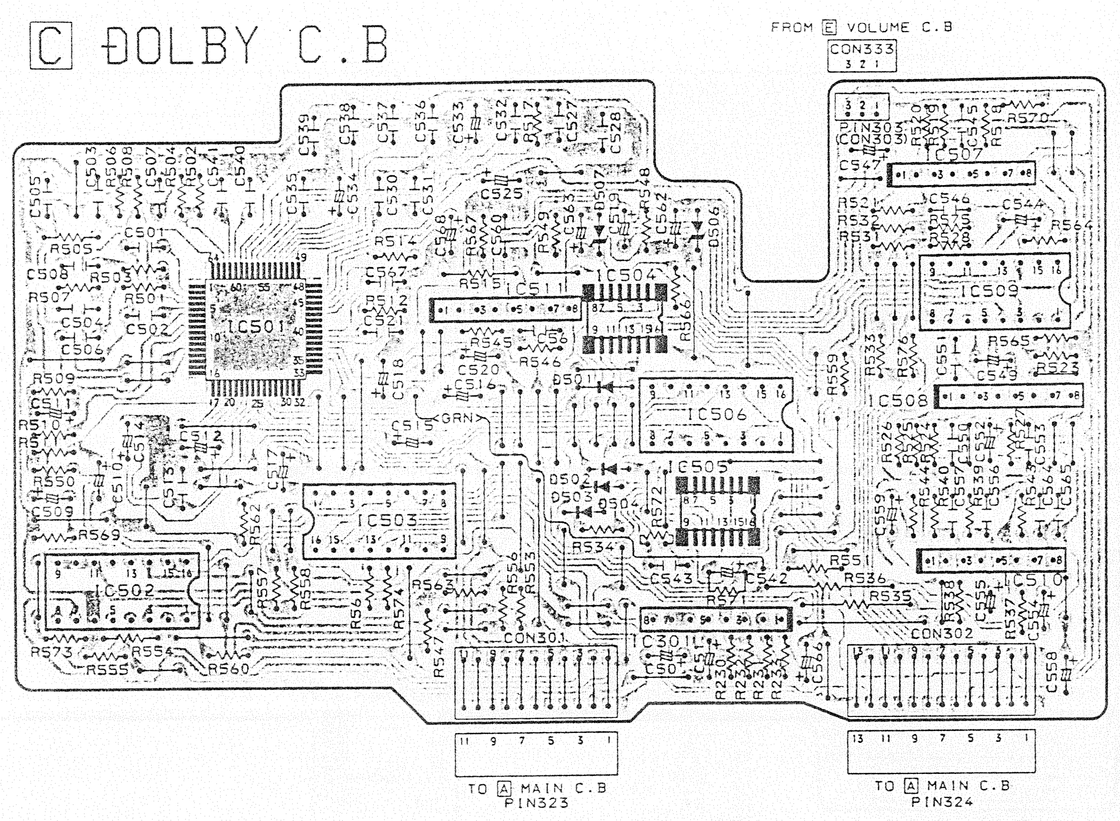
SCHEMATIC DIAGRAM – 2 (MX-Z9300M)


C DOLBY C.B
IC501
NJM2177AF
DOLBY PRO LOGIC
AMP
IC301 (2/2)
NJM4558L
IC301 (1/2)
NJM4558L
10.7V
5.1V
-9.8V
D506 UTZJ5.1B
D507 UTZJ5.1B
R548 680
R549 680
R563 15k
R547 100k
IC502 TC4053BP
DSP ON/OFF
IC503 TC4053BP
DSP ON/OFF
IC504 MC14053BF
REAR OUTPUT SW
MODE
IC505 MC14053BF
MODE SW
IC506 TC4094BP
SHIFT RESISTOR
IC509 TC9213P
ELECTRIC VOL
C.CH.
S.CH.
AMP
IC507 (2/2)
NJM4558L
IC507 (1/2)
NJM4558L
BUFFER
IC508 (1/2)
NJM4558L
IC508 (2/2)
NJM4558L
MIC MIX AMP
IC510 NJM4558L
IC511 (2/2)
NJM4558L
IC511 (1/2)
NJM4558L
D501 1SS132
D502 1SS132
D503 1SS132
D504 1SS132
NC
L-RECT-TC
R-BPF-OUT
R-BPF-IN
R-RECT-TC
GND
AB-GATE
AB-HOLD-TC
L-AB-IN
L-AB-OUT
L-IN
L-INBUF-OUT
R-INBUF-OUT
R-IN
R-AB-OUT
NC
R-AB-IN
NOISE-CNT-E
NOISE-CNT-A
NOISE-CNT-B
NOISE-REF
NOISE-HPF
NOISE-LPF
S-OUT
CENTER-CNT
MODE-CNT
L-OUT
R-OUT
L+R-OUT
L-R-OUT
NC
NC
CENTER-MODE
Vcc
C-OUT
S'-OUT
IREF
NR-VCF
NR-IN
VREF
VREF
NR-WT
LPF-OUT
LPF-INV-IN
LPF-NINV-IN
NR-TC
NC
NC
VLR-TC3
VCS-TC3
VCS-TC2
VCS-TC1
VLR-TC1
VLR-TC2
L-RECT-OUT
L-RECT-OUT
L-RECT-OUT
L-RECT-OUT
S-RECT-TC
C-RECT-TC
L-BPF-OUT
L-BPF-IN
CON301
L IN
R IN
R BBE OUT
L BBE OUT
R DSP IN
-Vcc
L DSP IN
A-GND
R DSP OUT
+Vcc
L DSP OUT
TO
A MAIN C.B
PIN323
PIN303
(CON303)
C.OUT
GND
C.VOL.OUT
FROM
E VOLUME C.B
CON333
CON302
REAR OUT
CENTER.OUT
CENTER CONT.
MIC
L OUT
R OUT
CS (SR-EVR)
CLK
DATA
STB SR
Q'S OUT
DSP/DOLBY
D.GND
TO
A MAIN C.B
PIN324

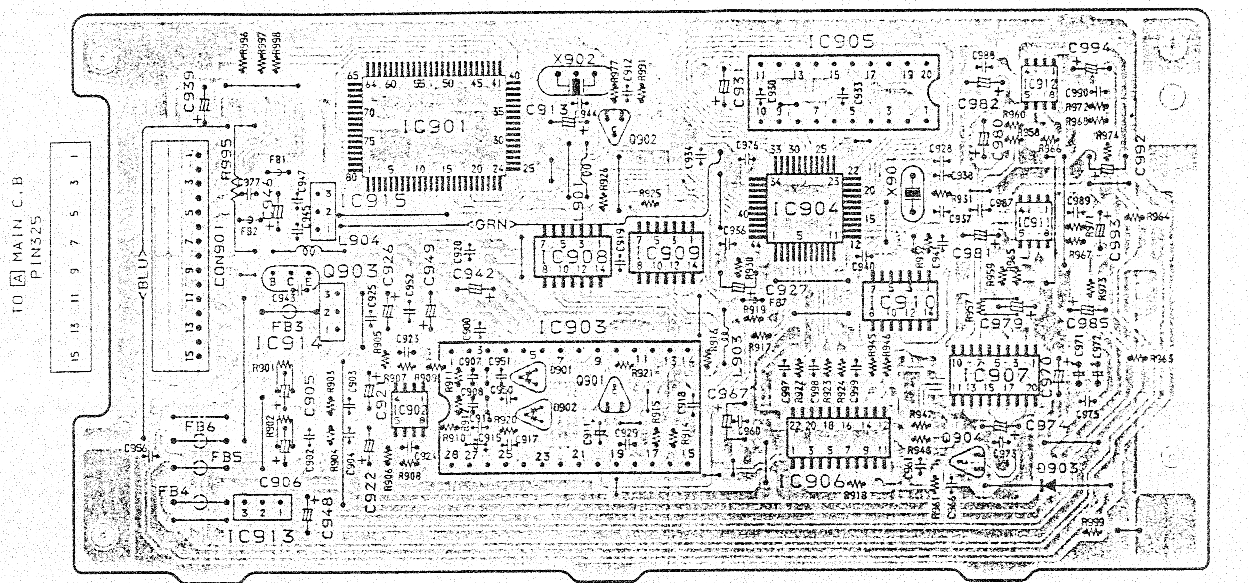
B-¥SM-4VP-100LBY


D DSP C.B
ANTI-AREASING FILTER
IC902 (1/2) NJM2068MD
IC902 (2/2) NJM2068MD
D901 DA204K (K60)
D902 DA204K (K60)
A/D CONVERTER
IC903 CS5339-KP
INITIALIZE (RESET)
Q901 DTA144EK (16)
IC908 (1/4) SN74HC00NS
IC908 (2/4) SN74HC00NS
IC908 (3/4) SN74HC00NS
IC908 (4/4) SN74HC00NS
IC908 NAND GATE
IC909 (1/2) SN74HC74NS
IC909 (2/2) SN74HC74NS
IC909 D F/F
IC905 HM514256AP-10 D-RAM
IC904 CXD2701Q DSP
X901 22.5792MHz
IC910 (1/2) SN74HC74NS D F/F
IC910 (2/2) SN74HC74NS D F/F
IC906 SM5840ES DIGITAL FILTER
IC907 BB PCM69AU
D/A CONVERTER
Q904 DTC144WK (86)
D903 1SS132
I/V CONVERTER
IC911 (1/2) NJM2068MD
IC911 (2/2) NJM2068MD
IC912 (1/2) NJM2068MD
IC912 (2/2) NJM2068MD
IC913-915 CONSTANT VOLTAGE
IC913 NJM78L05A
IC914 NJM79L05
IC915 NJM78M05FA
Q903 2SA952K
POWER ON/OFF
IC901 CXP81312-333Q µ-COM DSP
X902 4.19MHz
Q902 DTC144WK (86)
CON901
MUTE 1
NC 2
D-CLK (DSP, GEQ) 3
D-CS (DSP) 4
D-DATA (DSP) 5
D-GND 6
+VM 7
R-IN 8
-VCC 9
L-IN 10
A-GND 11
R-OUT 12
+VCC 13
L-OUT 14
P-ON 15
TO A MAIN C.B PIN325
DIGITAL SIGNAL FLOW
ANALOG SIGNAL FLOW
5.0V
-5.0V
10.6V
12.1V
-9.9V
4.5V
4.4V
FB1
FB2
FB3
FB4
FB5
FB6
FB7
L901 47µH
L903 47µH
L904 47µH

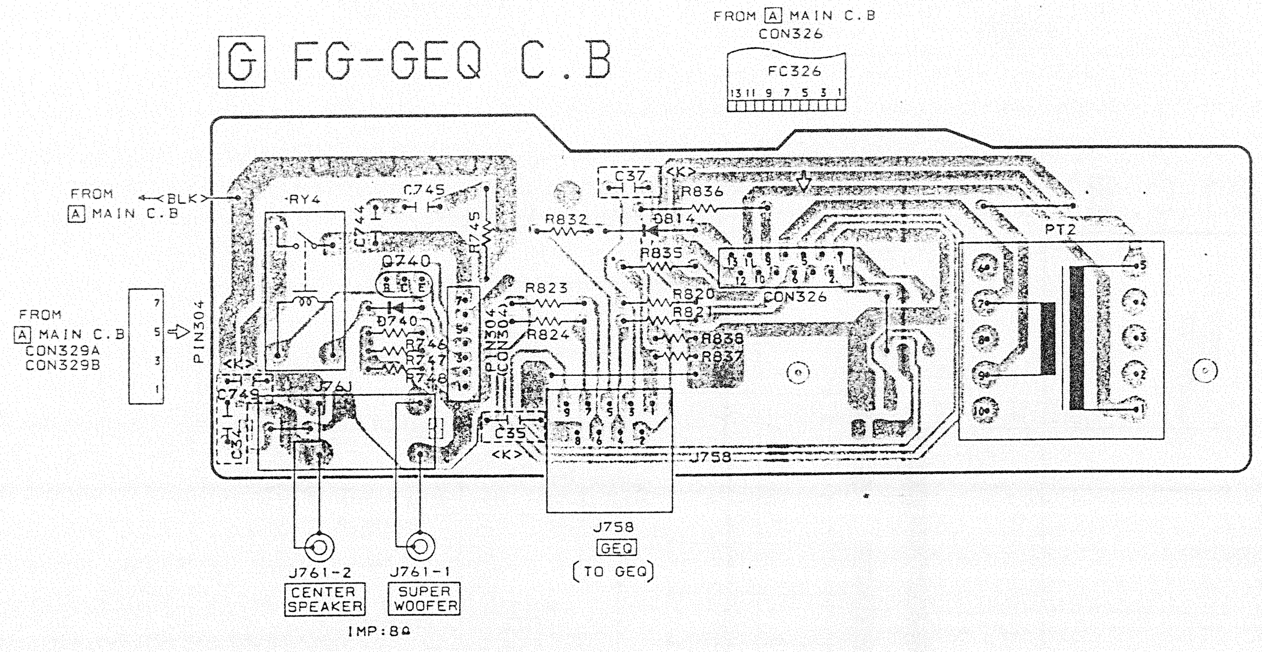
C DOLBY C.B


FROM E VOLUME C.B
CON333
IC501
IC502
IC503
IC504
IC505
IC506
IC507
IC508
IC509
IC510
IC511
CON301
CON302
CON303
TO A MAIN C.B
PIN323
TO A MAIN C.B
PIN324

D DSP C.B

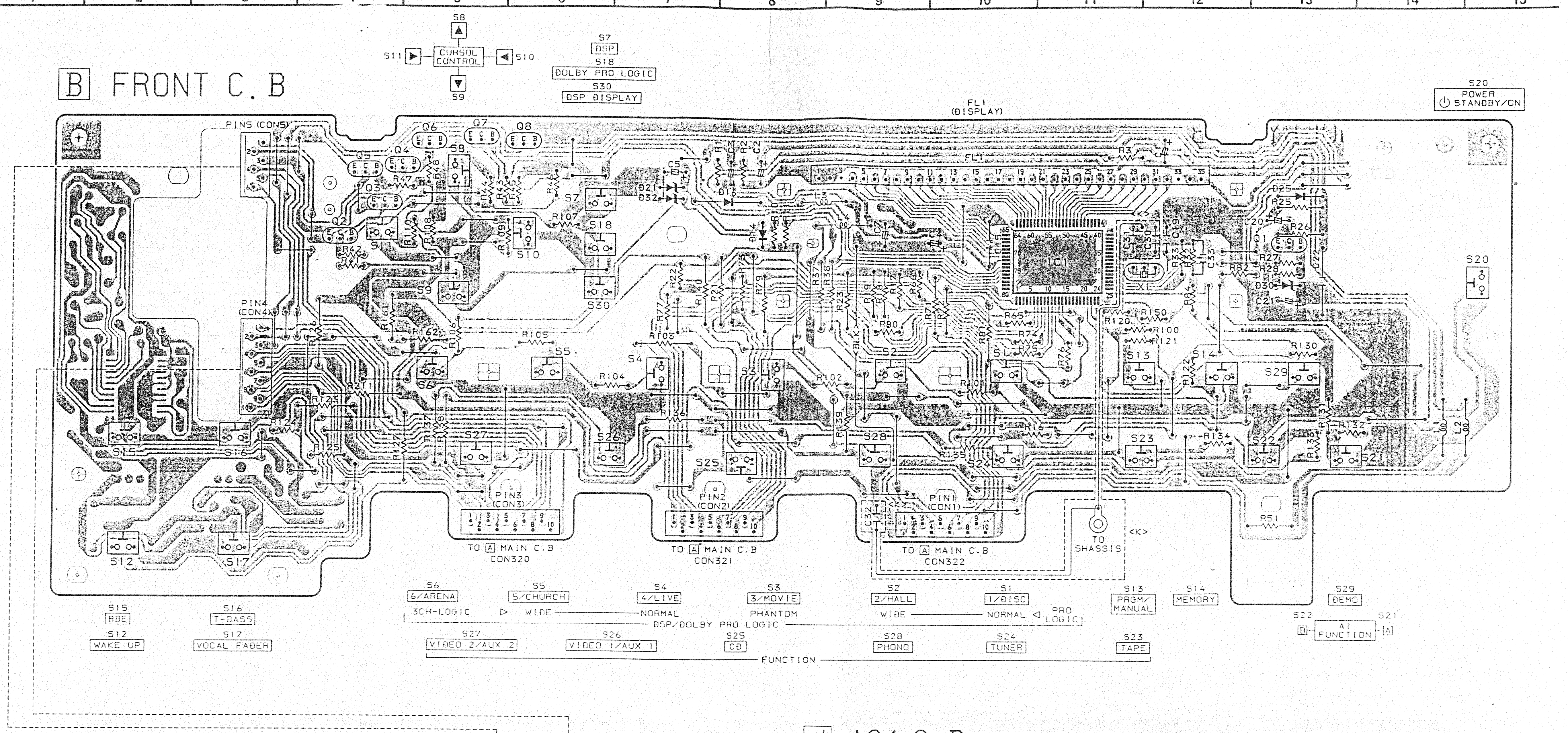

TO A MAIN C.B
PIN325
CON901
IC901
IC903
IC904
IC905
IC906
IC907
IC908
IC909
IC910
IC911
IC912
IC913
IC914
IC915
X901
X902
BLU
GRN

G FG-GEQ C.B

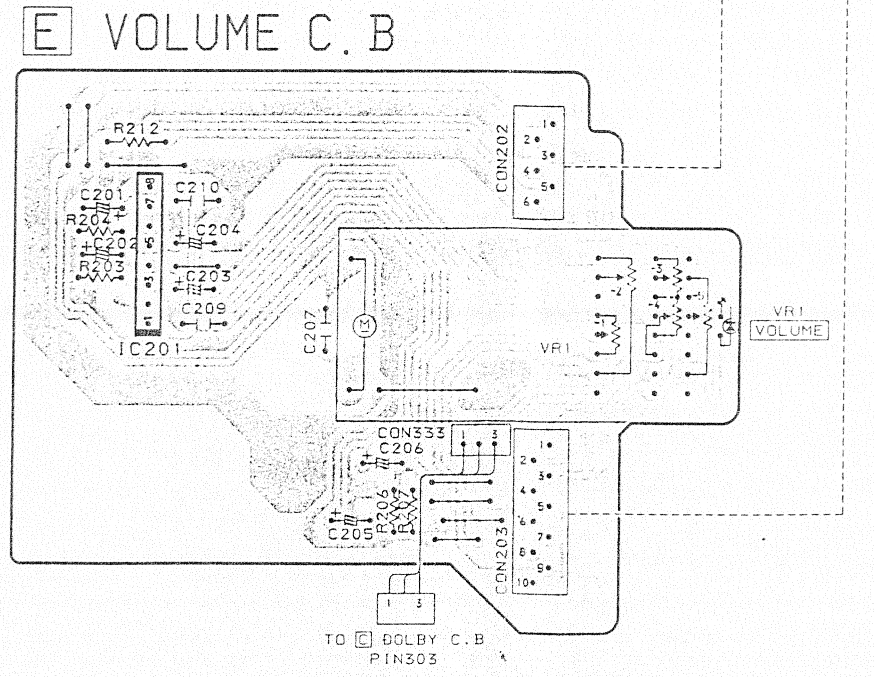

FROM A MAIN C.B
CON326
FC326
FROM A MAIN C.B
BLK
FROM A MAIN C.B
CON329A
CON329B
PIN304
RY4
PT2
CON326
J758
J758
GEQ
(TO GEQ)
J761-2
CENTER SPEAKER
J761-1
SUPER WOOFER
IMP:8Ω

WIRING – 3 (MX-Z9300M)

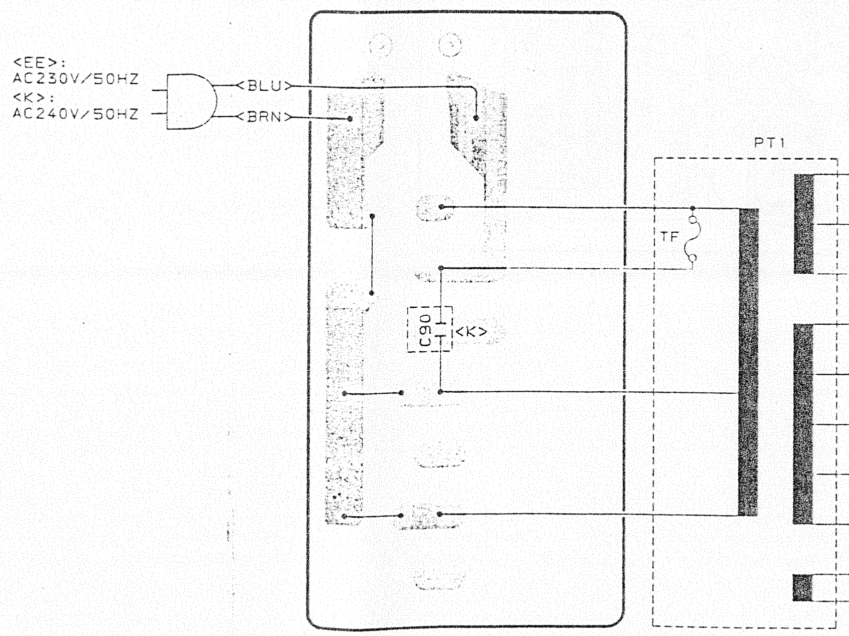
B FRONT C.B


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
A
B
C
D
E
F
G
S8
S11
CURSOL CONTROL
S10
S9
S7
DSP
S18
DOLBY PRO LOGIC
S30
DSP DISPLAY
FL1
(DISPLAY)
S20
POWER
⏻ STANDBY/ON
PIN5 (CON5)
PIN4 (CON4)
PIN3 (CON3)
PIN2 (CON2)
PIN1 (CON1)
IC1
TO A MAIN C.B
CON320
TO A MAIN C.B
CON321
TO A MAIN C.B
CON322
TO
SHASSIS
<K>
S6
6/ARENA
S5
5/CHURCH
S4
4/LIVE
S3
3/MOVIE
S2
2/HALL
S1
1/DISC
S13
PRGM/
MANUAL
S14
MEMORY
S29
DEMO
3CH-LOGIC
WIDE
NORMAL
PHANTOM
WIDE
NORMAL
PRO
LOGIC
DSP/DOLBY PRO LOGIC
S15
BBE
S16
T-BASS
S12
WAKE UP
S17
VOCAL FADER
S27
VIDEO 2/AUX 2
S26
VIDEO 1/AUX 1
S25
CD
S28
PHONO
S24
TUNER
S23
TAPE
FUNCTION
S22
B
AI
FUNCTION
S21
A

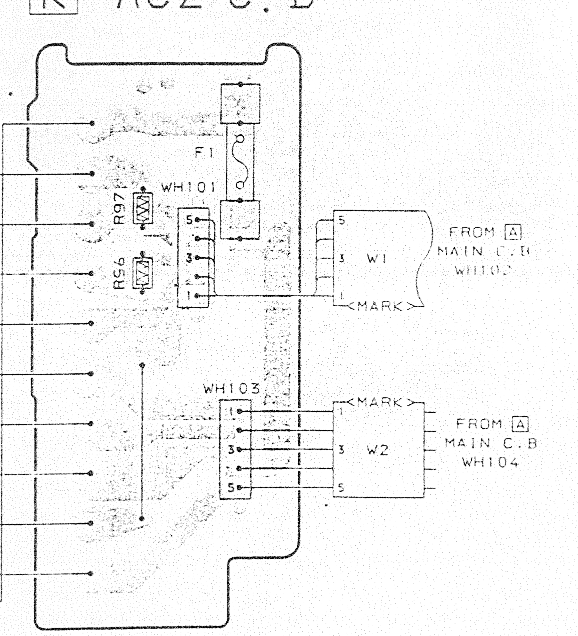
E VOLUME C.B


H
I
J
K
R212
C201
C210
R204
C202
C204
R203
C203
C209
IC201
CON202
C207
VR1
VR1
VOLUME
CON333
C206
C205
CON203
TO C DOLBY C.B
PIN303

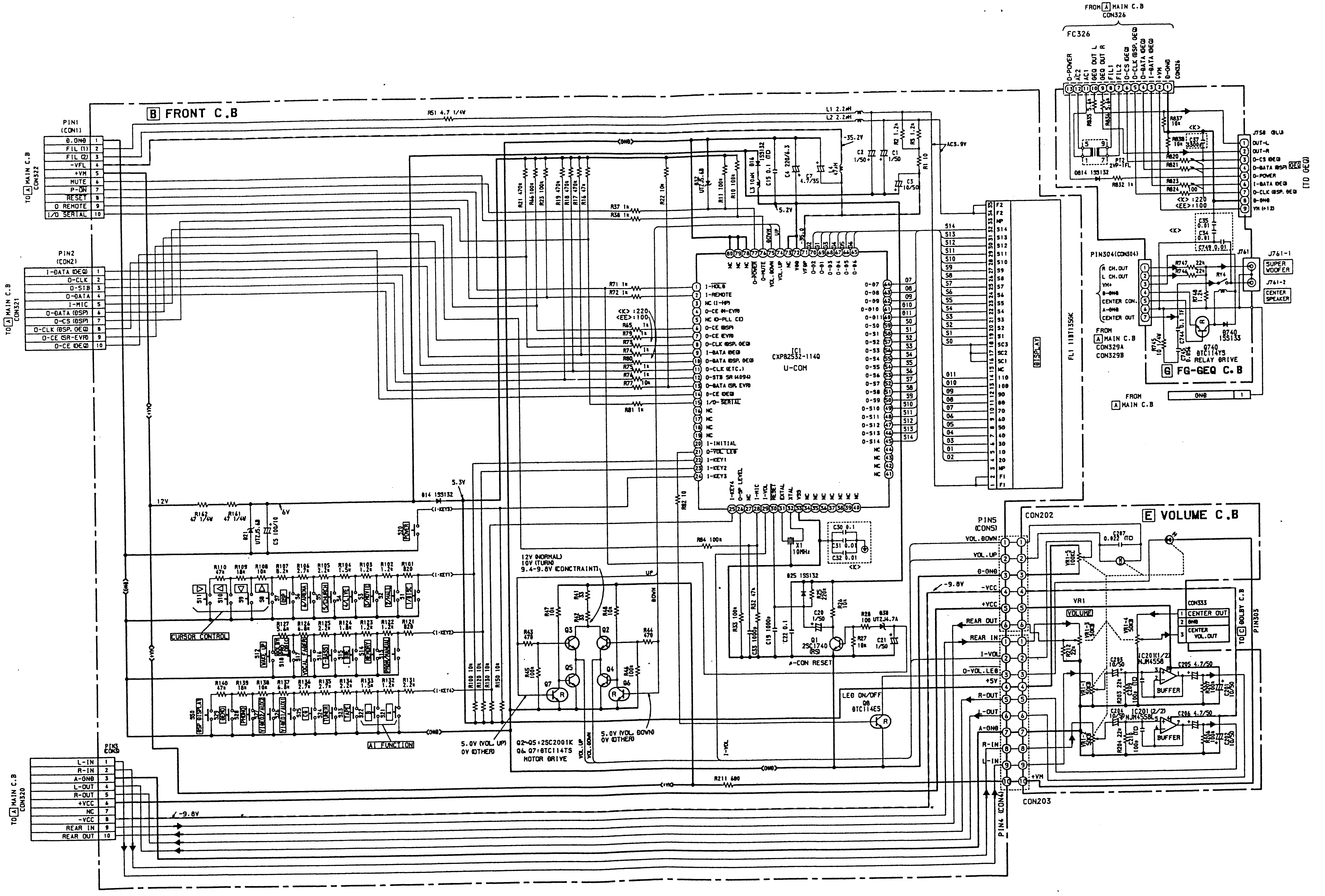
J AC1 C.B


<EE>:
AC230V/50HZ
<K>:
AC240V/50HZ
BLU
BRN
PT1
TF
C90
<K>

K AC2 C.B

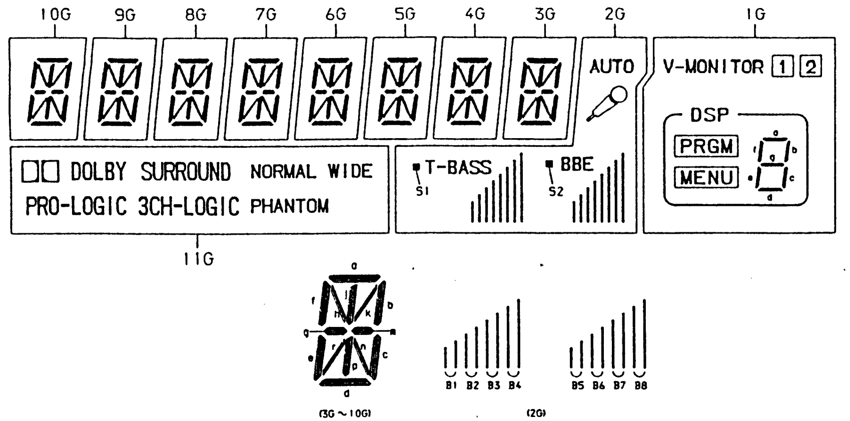

F1
WH101
R97
R96
W1
FROM A
MAIN C.B
WH102
<MARK>
WH103
<MARK>
W2
FROM A
MAIN C.B
WH104

SCHEMATIC DIAGRAM – 3 (MX-Z9300M)


B FRONT C.B
E VOLUME C.B
G FG-GEQ C.B
FROM A MAIN C.B CON326
FC326
PIN1 (CON1)
TO A MAIN C.B CON322
B.GND
FIL (1)
FIL (2)
-VFL
+VM
MUTE
P-ON
RESET
O REMOTE
I/O SERIAL
PIN2 (CON2)
TO A MAIN C.B CON321
I-DATA (DEQ)
O-CLK
O-STB
O-DATA
I-MIC
O-DATA (DSP)
O-CS (DSP)
O-CLK (DSP, DEQ)
O-CE (SR-EVR)
O-CE (DEQ)
IC1 CXP82532-114Q U-COM
FL1 11BT135GK
DISPLAY
X1 10MHz
Q1 2SC1740 (RS)
μ-CON RESET
LED ON/OFF Q8 DTC114ES
CURSOR CONTROL
AI FUNCTION
12V (NORMAL)
10V (TURN)
9.4-9.8V (CONSTRAINT)
5.0V (VOL. UP) 0V (OTHER)
5.0V (VOL. DOWN) 0V (OTHER)
Q2~Q5:2SC2001K
Q6, Q7:DTC114TS
MOTOR DRIVE
PIN3 (CON3)
TO A MAIN C.B CON320
L-IN
R-IN
A-GND
L-OUT
R-OUT
+VCC
NC
-VCC
REAR IN
REAR OUT
PIN5 (CON5)
CON202
VOL.DOWN
VOL.UP
B-GND
-VCC
+VCC
REAR OUT
REAR IN
I-VOL
O-VOL.LED
+5V
R-OUT
L-OUT
A-GND
R-IN
L-IN
+VM
PIN4 (CON4)
CON203
VR1 VOLUME
IC201 (1/2) NJM4558
IC201 (2/2) NJM4558L
BUFFER
CON333
CENTER OUT
GND
CENTER VOL.OUT
TO C DOLBY C.B PIN303
J758 (BLU)
OUT-L
OUT-R
O-CS (DEQ)
O-DATA (DSP) (DEQ)
O-POWER
I-DATA (DEQ)
O-CLK (DSP, DEQ)
B-GND
VM (+12)
TO DEQ
PIN304 (CON304)
R CH.OUT
L CH.OUT
VM+
B-GND
CENTER CON.
A-GND
CENTER OUT
FROM A MAIN C.B CON329A CON329B
J761
J761-1 SUPER WOOFER
J761-2 CENTER SPEAKER
Q740 DTC114YS RELAY DRIVE
D740 1SS133
FROM A MAIN C.B
GND
PT2 2VP-1FL
D814 1SS132
R51 4.7 1/4W
L1 2.2μH
L2 2.2μH
-35.2V
5.2V
5.3V
12V
-9.8V
R211 680

FL (11-BT-135GK) (MX-Z9300M)

GRID ASSIGNMENT

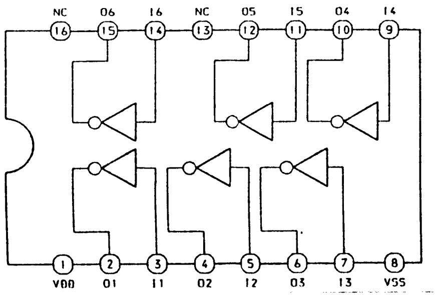


10G
9G
8G
7G
6G
5G
4G
3G
2G
1G
AUTO
V-MONITOR 1 2
DSP
PRGM
MENU
DOLBY SURROUND NORMAL WIDE
PRO-LOGIC 3CH-LOGIC PHANTOM
T-BASS
S1
BBE
S2
11G
a b c d e f g h j k m n p r
B1 B2 B3 B4
B5 B6 B7 B8
(3G ~ 10G)
(2G)

ANODE CONNECTION

	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	DD DOLBY	a	a	a	a	a	a	a	a	–	1
P2	SURROUND	b	b	b	b	b	b	b	b	–	2
P3	PRO-LOGIC	c	c	c	c	c	c	c	c	–	DSP
P4	3CH-LOGIC	d	d	d	d	d	d	d	d	B1, S1	PRGM
P5	NORMAL	e	e	e	e	e	e	e	e	B2	MENU
P6	WIDE	f	f	f	f	f	f	f	f	B3	a
P7	PHANTOM	g	g	g	g	g	g	g	g	B4	b
P8	—	h	h	h	h	h	h	h	h	B5, S2	c
P9	—	j	j	j	j	j	j	j	j	B6	d
P10	—	k	k	k	k	k	k	k	k	B7	e
P11	—	m	m	m	m	m	m	m	m	B8	f
P12	—	n	n	n	n	n	n	n	n	🎤	g
P13	—	p	p	p	p	p	p	p	p	AUTO	–
P14	—	r	r	r	r	r	r	r	r	–	–
P15	—	–	–	–	–	–	–	–	–	T-BASS	–
P16	—	–	–	–	–	–	–	–	–	BBE	–
P17	—	–	–	–	–	–	–	–	–	–	V-MONITOR

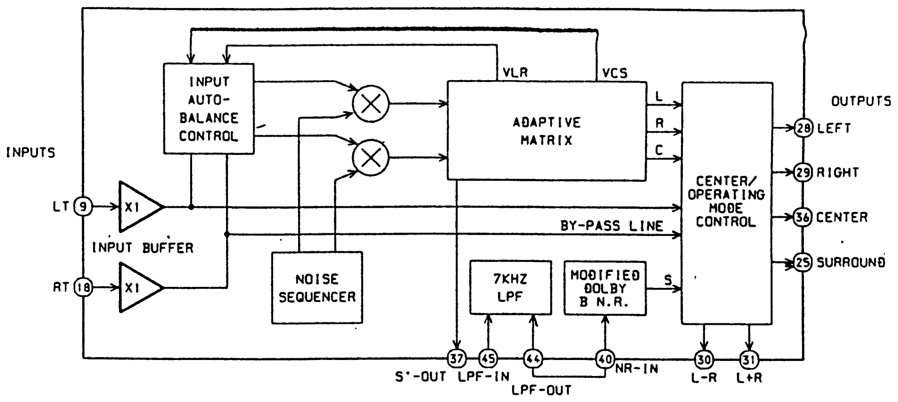
IC, TC4094BP



NC
06
16
NC
05
15
04
14
16
15
14
13
12
11
10
9
1
2
3
4
5
6
7
8
VDD
01
11
02
12
03
13
VSS

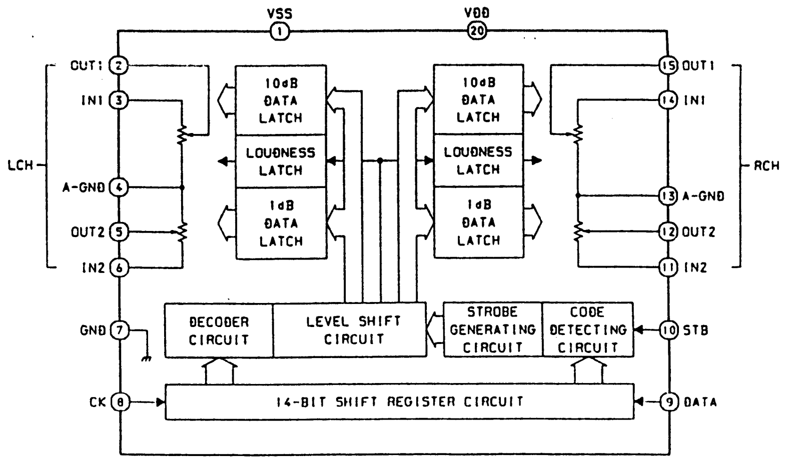
IC BLOCK DIAGRAM (MX-Z9300M)

IC, NJM2177AF



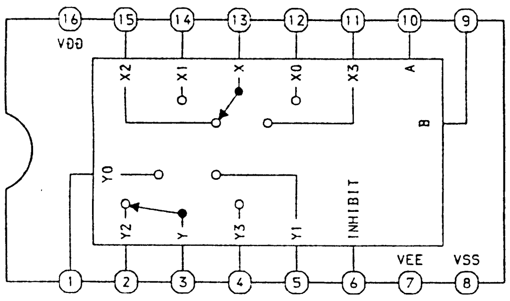
INPUTS
LT 9
RT 18
X1
X1
INPUT BUFFER
INPUT AUTO-BALANCE CONTROL
VLR
VCS
ADAPTIVE MATRIX
L
R
C
BY-PASS LINE
NOISE SEQUENCER
7KHZ LPF
MODIFIED DOLBY B N.R.
S
CENTER/ OPERATING MODE CONTROL
OUTPUTS
28 LEFT
29 RIGHT
36 CENTER
25 SURROUND
37
45
44
40
30
31
S'-OUT
LPF-IN
LPF-OUT
NR-IN
L-R
L+R

IC, TC9213P



VSS 1
VDD 20
OUT1 2
IN1 3
LCH
A-GND 4
OUT2 5
IN2 6
GND 7
CK 8
15 OUT1
14 IN1
RCH
13 A-GND
12 OUT2
11 IN2
10 STB
9 DATA
10dB DATA LATCH
LOUDNESS LATCH
1dB DATA LATCH
10dB DATA LATCH
LOUDNESS LATCH
1dB DATA LATCH
DECODER CIRCUIT
LEVEL SHIFT CIRCUIT
STROBE GENERATING CIRCUIT
CODE DETECTING CIRCUIT
14-BIT SHIFT REGISTER CIRCUIT

IC, TC4052



16
15
14
13
12
11
10
9
VDD
X2
X1
X
X0
X3
A
B
Y0
Y2
Y
Y3
Y1
INHIBIT
VEE
VSS
1
2
3
4
5
6
7
8

TRUTH TABLE

CONTROL INPUTS			ON SWITCH	
INHIBIT	B	A		
L	L	L	Y0	X0
L	L	H	Y1	X1
L	H	L	Y2	X2
L	H	H	Y3	X3
H	X	X	–	–

L:LOW LEVEL
H:HIGH LEVEL
H:IRRELEVANT

IC DESCRIPTION (MX-Z9300M)

IC, PCM69AU

Pin No.	Pin Name	I/O	Description
1	+VCC	-	Power supply. (+5V)
2	V COM (L)	O	V common for L-Channel.
3	NC	-	Not used.
4	I-OUT (L)	O	Current output for L-channel.
5	SERVO DC	-	Servo filter. Bypassed via capacitor to GND.
6	REF DC	-	Reference filter. Bypassed via capacitor to GND.
7	I-OUT (R)	O	Current output for R-channel.
8	NC	-	Not used.
9	V COM (R)	O	V common for R-channel.
10	A GND	-	Analog GND.
11	D-GND	-	Digital GND.
12	TP2	I	Test terminal 2. (Connected to GND)
13	DATA (R)	I	Data input for R-channel.
14	BCK	I	Bit clock input.
15	SYS-CLK	I	System clock input.
16	WDCK	I	Word clock input.
17	DATA (L)	I	Data input for L-channel.
18	TP3	I	Test terminal 3. (Not used)
19	TP1	I	Test terminal 1. (Connected to VDD)
20	+VDD	-	Power supply. (+4.5V)

IC, CXP82532-114Q

Pin No.	Pin Name	I/O	Description
1	I-$\overline{\text{HOLD}}$	I	HOLD input. "L": Normal mode.
2	I-REMOTE	I	Remote control input.
3	NC	-	Not used.
4	O-CE (M-EVR)	O	Not used.
5	NC	-	Not used.
6	O-CE (DSP)	O	Strove output for DSP microcomputer.
7	O-CE (EVR)	O	Strove output for electrical volume.
8	O-CLK (DSP, GEQ)	O	Clock output for DSP and GEQ.
9	I-DATA (GEQ)	I	Data input from GEQ microcomputer.
10	O-DATA (DSP, GEQ)	O	Data output for DSP and GEQ.
11	O-CLK (etc)	O	Clock for shift register and electrical volume.
12	O-0STB SR (4094)	O	Strove output for shift register.
13	O-DATA (SR, EVR)	O	Data output for shift register and electrical volume.
14	O-CE (GEQ)	O	Strove output for GEQ microcomputer.
15	I/O $\overline{\text{SERIAL}}$	I/O	Serial data for system control.
16~19	NC	-	Not used.
20	I-INITIAL	I	Initialize input. (Not used)
21	O-$\overline{\text{VOL.LED}}$	O	Volume LED control output. LED light on when "H".
22~23	I-KEY1~I-KEY2	I	A/D input for key input.
24	I-KEY3	I	Key input. (Power)
25	I-KEY4	I	A/D input for key input.
26	O-SP LEVEL	-	Not used.
27	NC	-	Not used.
28	I-MIC	I	Microphone input detection A/D port. Vocal fader switched on at an input of over 0.34V in auto vocal fader mode. Reset time : Fast 1 sec., Slow 4 sec.
29	I-VOL	I	A/D input for volume position detection.
30	$\overline{\text{RESET}}$	I	Reset input.
31	EXTAL	-	X'tal terminal. (10.0MHz)
32	XTAL	-	X'tal terminal. (10.0MHz)
33	VSS	I	GND.
34~44	NC	-	Not used.
45~59	O-S14~O-S0	O	FL display segment output.
60~70	O-G11~O-G1	O	FL display grid output.
71	VFDP	-	FL display power supply. (-31.4V)
72	VDD	-	Power supply. (+5V)
73	NC	-	Connected to VDD.
74	VOL UP	O	Volume control output. (UP)
75	VOL DOWN	O	Volume control output. (DOWN)
76	O-MUTE	O	Mute output. Muting when "H".
77	O-$\overline{\text{POWER}}$	O	Power control output. Power on when "L".
78~80	NC	-	Not used.

IC, CXP81312-333Q

Pin No.	Pin Name	I/O	Description
1~14	NC	O	Not used.
15	I-FADER	I	Connected to GND.
16	I-OVER	I	Not used.
17	I-FSO	I	Connected to GND.
18	I-FSI	I	Connected to GND.
19	O-CLK2701	O	Clock signal for CXD2701 control.
20	O-DATA2701	O	Serial data for CXD2701 control.
21	NC	O	Not used.
22	O-32K	O	Not used.
23	O-48K	O	Not used.
24	O-44.1K	O	Not used.
25	NC	O	Not used.
26	$\overline{\text{O-DAT}}$	O	Not used.
27	O-DIG A	O	Not used.
28	O-DIG B	O	Not used.
29	$\overline{\text{O-K MODE}}$	O	Not used.
30	O-STB2701	O	Strobe signal for CXD2701 control.
31	MP	O	Not used. (Connected to GND)
32	$\overline{\text{RST}}$	I	Reset signal for microcomputer.
33	VSS	-	GND.
34	XTAL	I	X'tal terminal. (4.19MHz)
35	EXTAL	-	X'tal terminal. (4.19MHz)
36	$\overline{\text{CSO}}$	I	Connected to VDD.
37	SIO	I	Connected to VDD.
38	SOO	O	Not used.
39	$\overline{\text{SCKO}}$	O	Not used.
40	I-STB DSP	I	Strobe signal input from main microcomputer.
41	I-DATA DSP	I	Data input from main microcomputer.
42	VDD	I	Connected to VDD.
43	I-CLK	I	Clock input from main microcomputer.
44	I-BAND	I	Connected to GND.
45~51	-	I	Connected to GND.
52	VSS	-	GND.
53	VREF	-	Connected to VDD.
54	VDD	-	Power supply. (+4.5V)
55~62	PG7~PG0	I	Connected to VDD.
63~68	-	O	Not used.
69	PEM	I	Connected to VDD.
70	PEO	I	Connected to VDD.
71	$\overline{\text{NMI}}$	I	Connected to VDD.
72	VDD	-	Power supply. (+4.5V)
73	VSS	-	GND.
74~80	-	O	Not used.

IC, CXD2701Q

Pin No.	Pin Name	I/O	Description
1	I-MUTE	I	Input data format setting terminal. (Connected to VDD)
2	I-DIR	I	Input data format setting terminal. (Connected to VDD)
3	I-DATA	I	1-sampling 2-channel serial data input terminal. Data formatted as 2's complement.
4	I-BCK	I	Serial data transmission clock input.
5	I-LRCK	I	Serial I/O sampling clock input. L channel data transmission when "H", R channel data transmission when "L".
6	VSS1	-	GND.
7	O-DATA	O	Serial data output. (2's complement)
8	O-BCK	O	Bit clock output. 64 slots.
9	O-LRK	O	Serial data sampling clock output.
10	BS1	I	Output data bit quantity setting terminal. (Connected to VDD)
11	BS2	I	Output data bit quantity setting terminal. (Connected to GND)
12	O-DIR	I	Output data format setting terminal. (Connected to VDD)
13	VSS3	-	GND.
14	SCK	O	System clock output. fsk = fxt - 512fs
15	XOUT	O	X'tal oscillation circuit output. (22.57MHz)
16	XIN	I	X'tal oscillation circuit input. fxt = 512fs (22.57MHz)
17	VDD1	-	Pow supply. (+5V)
18~19	I/O4~3	I/O	Data input/output for external dynamic RAM.
20	CAS	O	Column address strobe output for external dynamic RAM.
21~22	I/O2~1	I/O	Data input/output for external dynamic RAM.
23	$\overline{WE}$	O	Write enable output for external dynamic RAM. "L" active.
24	A0	O	Address output for external dynamic RAM.
25	RAS	O	Low address strobe for external dynamic RAM.
26	A1~2	O	Address output for external dynamic RAM.
28	VSS2	-	GND.
29~34	A3~A8	O	Address output for external dynamic RAM.
35~37	TEST1~3	I	Test terminal. (Connected to GND)
38	TEST0	O	Teat terminal. (Not used)
39	VDD2	-	Pow supply. (+5V)
40	PRGD	I	Serial data input to receive commands, coefficients and control signals from microcomputer.
41	PRGCK	I	Serial clock input for PRGD data. Data is latched at the starting edge of the clock.
42	PRGL	I	Input to latch serial data from microcomputer in IC. "L" active.
43	INIT	I	Initializing input. "L" active. Put in sync again at leading edge.
44	OVF	O	Not used.

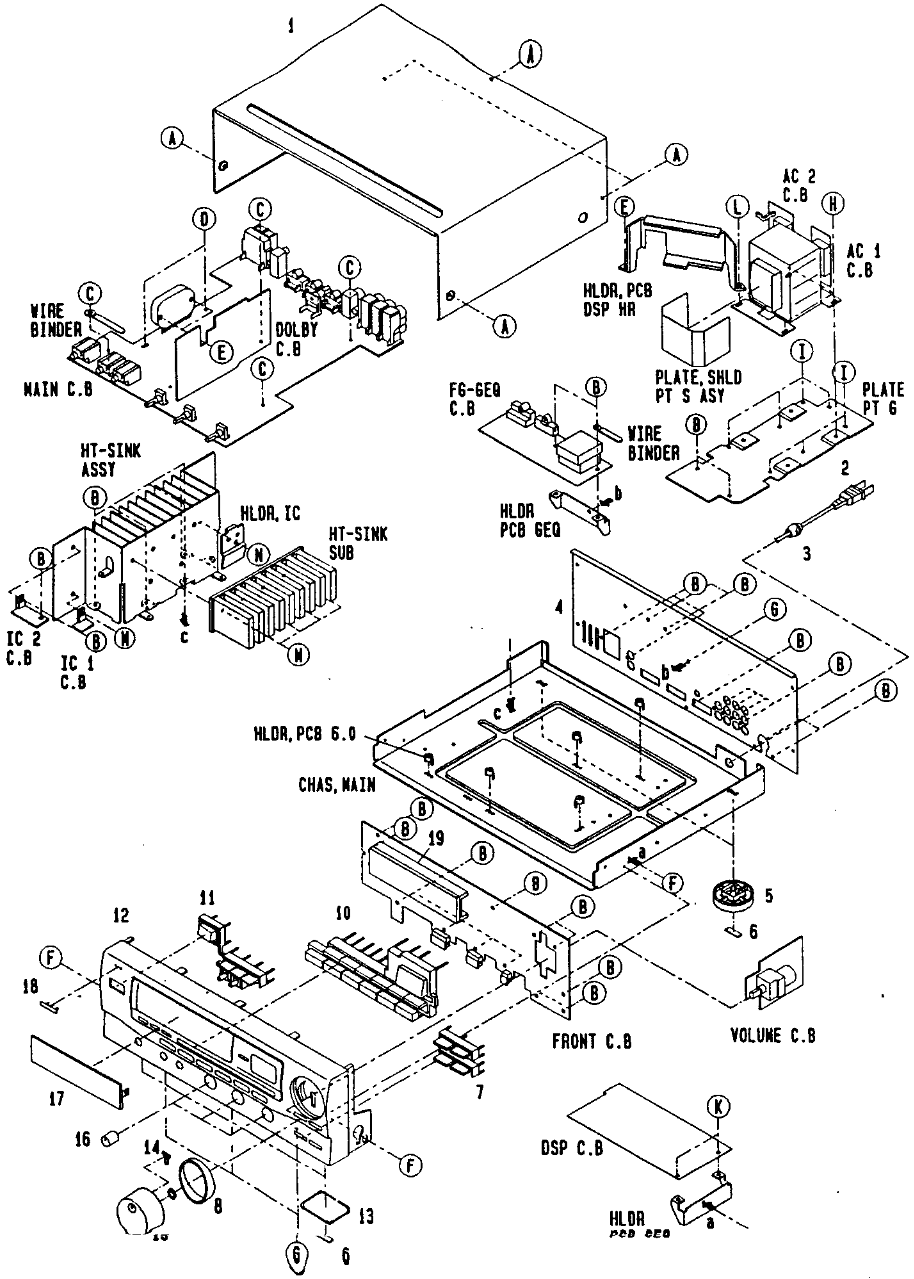
IC, SM5840ES

<table>
<tr><th>Pin No.</th><th>Pin Name</th><th>I/O</th><th colspan="2">Description</th></tr>
<tr><td>1</td><td>WSL1</td><td>I</td><td>Input/output
data word length
select pin 1.
(Connected to GND)</td><td><table><tr><th colspan="2">Pin level</th><th rowspan="2">Noise shaper</th><th colspan="2">Input/Output word length</th></tr><tr><th>WSL1</th><th>WSL2</th><th>Input bit no.</th><th>Output bit no.</th></tr><tr><td>H</td><td>H</td><td>OFF</td><td>18bit</td><td>20bit</td></tr><tr><td>H</td><td>L</td><td>ON</td><td>18bit</td><td>18bit</td></tr><tr><td>L</td><td>H</td><td>ON</td><td>16bit</td><td>18bit</td></tr><tr><td>L</td><td>L</td><td>ON</td><td>16bit</td><td>16bit</td></tr></table></td></tr>
<tr><td>2</td><td>CK1</td><td>I</td><td colspan="2">System clock input.</td></tr>
<tr><td>3</td><td>$\overline{CKSL}$</td><td>I</td><td colspan="2">System clock input (H : 384fs, L : 256fs). (Connected to VDD)</td></tr>
<tr><td>4</td><td>CKO</td><td>O</td><td colspan="2">System clock output. (The CKi clock is buffered and output.)
(unused)</td></tr>
<tr><td>5</td><td>VSS</td><td>-</td><td colspan="2">GND.</td></tr>
<tr><td>6~7</td><td>NC</td><td>-</td><td colspan="2">Not connected.</td></tr>
<tr><td>8</td><td>WSL2</td><td>I</td><td colspan="2">Input/output data word length select pin2. (Connected to VDD)</td></tr>
<tr><td>9</td><td>DSF1</td><td>I</td><td>Deemphasis
select pin 1.</td><td rowspan="2"><table><tr><th colspan="2">Pin level</th><th colspan="2">Deemphasis</th></tr><tr><th>DFS1</th><th>DFS2</th><th>ON/OFF select</th><th>f/s serect</th></tr><tr><td>H</td><td>L</td><td>ON</td><td>44.1kHz</td></tr><tr><td>H</td><td>H</td><td>ON</td><td>48.0kHz</td></tr><tr><td>L</td><td>H</td><td>ON</td><td>32.0kHz</td></tr><tr><td>L</td><td>L</td><td>OFF</td><td>-</td></tr></table></td></tr>
<tr><td>10</td><td>DSF2</td><td>I</td><td>Deemphasis
select pin 2.</td></tr>
<tr><td>11</td><td>$\overline{RST}$</td><td>I</td><td colspan="2">System reset.</td></tr>
<tr><td>12</td><td>BCKO</td><td>O</td><td colspan="2">Output bit clock.</td></tr>
<tr><td>13</td><td>DOR</td><td>O</td><td colspan="2">Rch 8fs data output.</td></tr>
<tr><td>14</td><td>DOL</td><td>O</td><td colspan="2">Lch 8fs data output.</td></tr>
<tr><td>15</td><td>WCKO</td><td>O</td><td colspan="2">Output word clock.</td></tr>
<tr><td>16</td><td>VDD</td><td>-</td><td colspan="2">Power pin.</td></tr>
<tr><td>17~19</td><td>NC</td><td>-</td><td colspan="2">Not connected.</td></tr>
<tr><td>20</td><td>LRC1</td><td>I</td><td colspan="2">Input data sample rate (fs) clock.</td></tr>
<tr><td>21</td><td>BCK1</td><td>I</td><td colspan="2">Input bit clock.</td></tr>
<tr><td>22</td><td>DIN</td><td>I</td><td colspan="2">Input data.</td></tr>
</table>

IC, TMS44C256-10N

Pin No.	Pin Name	I/O	Description
1~2	I/O1~I/O2	I/O	Data input/output.
3	WE	-	Write enable output.
4	RAS	-	Row address strobe signal.
5	NC	-	Not used.
6~9	A0~A3	I	Address input.
10	VDD	-	Power supply. (+5V)
11~15	A4~A8	I	Address input.
16	OE	-	Output enable signal.
17	CAS	-	Column address strobe signal.
18~19	I/O3~I/O4	I/O	Data input/output.
20	VSS	-	GND.

MECHANISM EXPLODED VIEW 1/1 (MX-Z9300M)


1
Ⓐ
Ⓐ
Ⓐ
Ⓐ
Ⓓ
Ⓒ
Ⓒ
Ⓒ
Ⓒ
Ⓔ
WIRE BINDER
DOLBY C.B
MAIN C.B
Ⓔ
HLDR, PCB DSP HR
Ⓛ
AC 2 C.B
Ⓗ
AC 1 C.B
PLATE, SHLD PT S ASY
Ⓘ
Ⓘ
PLATE PT G
FG-GEQ C.B
Ⓑ
WIRE BINDER
Ⓑ
2
HLDR PCB GEQ
b
HT-SINK ASSY
Ⓑ
HLDR, IC
HT-SINK SUB
Ⓝ
Ⓑ
IC 2 C.B
Ⓑ
Ⓜ
IC 1 C.B
c
Ⓜ
3
4
Ⓑ
Ⓑ
Ⓖ
Ⓑ
Ⓑ
Ⓑ
b
c
HLDR, PCB 6.0
CHAS, MAIN
Ⓑ
Ⓑ
19
Ⓑ
Ⓑ
a
Ⓕ
5
6
Ⓑ
12
11
10
Ⓕ
18
Ⓑ
Ⓑ
FRONT C.B
VOLUME C.B
17
7
16
14
Ⓕ
DSP C.B
Ⓚ
8
13
HLDR PCB GEQ
a
Ⓖ
6

MECHANICAL PARTS LIST 1/1 (MX-Z9300M)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

	REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
	1	82-VP2-011-019		CAB, STEEL
△	2	87-050-100-019		AC CORD ASSY K3P(K)
△	2	87-050-034-019		AC-CORD ASSY, E(EE)
	3	87-085-185-010		BUSHING, AC CORD E
	4	85-VP1-017-019		PANEL REAR EEBN(EE)
	4	85-VP1-014-119		PANEL, REAR KBN(K)
	5	81-VX1-012-019		FOOT, REAR
	6	82-VW2-211-019		FELT, 20-7.5-2
	7	85-VP1-005-019		KEY, BBE
	8	85-VP1-007-019		RING, VOL
	10	85-VP1-004-110		KEY, FUN
	11	85-VP1-003-019		KEY, POWER
	12	85-VP1-009-019		CAB, FR E
	13	84-VM5-013-010		RING, FOOT
	14	82-NE6-016-019		IND, MAIN (VOL)
	15	85-VP1-008-019		KNOB, VOL
	16	83-NF6-020-019		KNOB, MIC
	17	85-VP1-006-019		WINDOW, AMP
	18	82-NE8-032-019		BADGE AIWA 27.5
	19	82-MA2-203-019		GUIDE, FL 2

REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
A	87-067-641-019		UTT2+3-8 W/O SLOT BLK
B	87-067-660-019		BVT2+3-8W/O SLOT BLK
C	87-067-758-019		BVT2+3-12(W/O SLOT)
D	87-067-584-019		BVT2+3-6 W/O SLOT
E	87-067-581-019		BVT2+3-15 W/O SLOT
F	87-591-094-419		QIT + 3 - 6 GOLD
G	87-067-716-019		BVTT+3-6 BLK
H	87-078-019-019		S-SCREW, IT+4-6
I	87-067-586-019		BVTT +4-8
K	87-078-084-019		BVTT+3-6 W, CONVEX
L	87-067-975-019		S-SCREW IT+4-8
M	87-067-703-019		BVT2+3-10 (W/O SLOT)
N	87-761-094-419		VFT2+3-6 W/O SLOT GOLD

ELECTRICAL MAIN PARTS LIST (FX-WZ9300)

DESCRIPTIONで判断できない物は "REFERENME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

IC

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
	87-020-454-010		IC,DM6851
	87-017-022-089		IC,NJM2068M-D(T1)
	87-001-224-089		IC,NJU4066BM
	87-020-730-089		IC,TC4069UBF
	87-001-607-089		IC,NJM4558M
	87-017-023-089		IC,NJU4052BM
	87-001-908-019		IC,CXA1332S
	82-VW2-631-010		IC,LC66406-4B19
	87-002-861-019		IC,CXP2201 AS

TRANSISTOR

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
	87-026-463-080		TR,2SA933S(RS)
	87-026-223-089		C-TR,DTC143TK
	89-109-521-089		TR,2SA952K
	89-327-125-089		C-TR,2SC2712GR
	89-113-625-089		C-TR,2SA1362GR(TAPG)
	89-320-011-089		TR,2SC2001K
	89-503-685-089		C-FET,2SK368GR
	89-333-266-089		C-TR,2SC3326B
	87-026-227-089		C-TR,DTA114EK
	89-318-155-089		TR,2SC1815GR
	89-112-965-089		TR,2SA1296GR
	87-026-210-089		C-TR,DTC144EK T147
	87-026-580-089		C-TR,DTA123JK
	89-413-023-089		TR,2SD1302S

DIODE

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
	87-002-564-089		DIODE,1SS133 RA
	87-020-330-089		C-DIODE,DAP202K
	87-020-584-089		C-ZENER,02CZ5.6Y
	87-020-123-059		DIODE,DS446 RA V-DT3
	87-001-290-059		ZENER,HZS6B1L RA
	87-017-024-089		C-DIODE,DA204K
	87-001-559-059		DIODE,1SS131 RA
	87-020-331-089		C-DIODE,DAN202K
	87-017-069-059		ZENER,HZS3A1 RA
	87-001-731-059		ZENER,HZS6C2L RA
	87-017-091-089		ZENER,HZS5C1
	87-020-123-089		DIODE DS446-AT TA
	87-027-329-089		ZENER,HZ22-3L

MAIN C.B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C101	87-012-158-089		C-CAP,S 390P-50 CH
C102	87-012-158-089		C-CAP,S 390P-50 CH
C103	87-010-318-089		C-CAP,S 47P-50 CH
C104	87-010-318-089		C-CAP,S 47P-50 CH
C105	87-010-426-089		C-CAP,S 0.012-25 B
C106	87-010-426-089		C-CAP,S 0.012-25 B
C109	87-012-154-089		C-CAP,S 150P-50 CH
C110	87-012-154-089		C-CAP,S 150P-50 CH
C111	87-010-404-089		CAP,E 4.7-50 SME
C112	87-010-404-089		CAP,E 4.7-50 SME
C113	87-010-404-089		CAP,E 4.7-50 SME
C114	87-010-404-089		CAP,E 4.7-50 SME
C115	87-010-101-089		CAP,E 220-16 SME
C116	87-010-197-089		C-CAP,S 0.01-25 B
C117	87-010-197-089		C-CAP,S 0.01-25 B
C201	87-012-157-089		C-CAP,S 330P-50 CH
C202	87-012-157-089		C-CAP,S 330P-50 CH
C203	87-010-318-089		C-CAP,S 47P-50 CH
C205	87-010-426-089		C-CAP,S 0.012-25 B
C206	87-010-426-089		C-CAP,S 0.012-25 B
C207	87-012-156-089		C-CAP,S 220P CH
C208	87-012-156-089		C-CAP,S 220P CH
C211	87-010-404-089		CAP,E 4.7-50 SME
C212	87-010-404-089		CAP,E 4.7-50 SME
C213	87-010-101-089		CAP,E 220-16 SME
C214	87-010-197-089		C-CAP,S 0.01-25 B
C215	87-010-197-089		C-CAP,S 0.01-25 B
C216	87-010-197-089		C-CAP,S 0.01-25 B
C251	87-010-186-089		C-CAP,S 4700P-50 B
C252	87-010-149-089		C-CAP,S 5P-50 CH
C253	87-010-182-089		C-CAP,S 2200P-50 B
C254	87-010-596-089		C-CAP,S 0.047-16 RK
C255	87-012-154-089		C-CAP,S 150P-50 CH
C256	87-010-374-089		CAP,E 47-10
C257	87-010-401-089		CAP,E 1-50 SME
C258	87-010-149-089		C-CAP,S 5P-50 CH
C259	87-010-178-089		C-CAP,S 1000P-50 B
C301	87-010-321-089		C-CAP,S 82P-50 CH
C302	87-010-321-089		C-CAP,S 82P-50 CH
C303	87-010-183-089		C-CAP,S 2700P-50 B
C304	87-010-183-089		C-CAP,S 2700P-50 B
C305	87-010-404-089		CAP,E 4.7-50 SME
C306	87-010-404-089		CAP,E 4.7-50 SME
C323	87-012-157-089		C-CAP,S 330P-50 CH
C324	87-012-157-089		C-CAP,S 330P-50 CH
C401	87-012-156-089		C-CAP,S 220P CH
C402	87-012-156-089		C-CAP,S 220P CH
C403	87-014-071-089		CAP,PP 3900P-100 J
C405	87-010-221-089		CAP,E 470-10
C409	87-010-402-089		CAP,E 2.2-50 SME
C451	87-010-178-089		C-CAP,S 1000P-50 B
C453	87-010-322-089		C-CAP,S 100P-50 CH
C454	87-010-322-089		C-CAP,S 100P-50 CH
C501	87-010-015-089		C-CAP,S 560P-50 SL
C502	87-010-015-089		C-CAP,S 560P-50 SL
C503	87-010-182-089		C-CAP,S 2200P-50 B
C504	87-010-182-089		C-CAP,S 2200P-50 B
C505	87-010-404-089		CAP,E 4.7-50 SME
C506	87-010-404-089		CAP,E 4.7-50 SME
C507	87-010-182-089		C-CAP,S 2200P-50 B
C508	87-010-182-089		C-CAP,S 2200P-50 B
C509	87-010-182-089		C-CAP,S 2200P-50 B
C510	87-010-182-089		C-CAP,S 2200P-50 B
C511	87-010-825-089		CAP,E 0.56-50 SME
C512	87-010-825-089		CAP,E 0.56-50 SME
C513	87-010-546-089		CAP,E 0.33-50 SME
C514	87-010-546-089		CAP,E 0.33-50 SME
C515	87-010-404-089		CAP,E 4.7-50 SME
C516	87-010-404-089		CAP,E 4.7-50 SME
C517	87-010-371-089		CAP,E 470-6.3
C518	87-010-101-089		CAP,E 220-16 SME
C519	87-012-360-089		C-CAP,S 1-10FZ
C520	87-012-360-089		C-CAP,S 1-10FZ
C521	87-010-179-089		C-CAP,S 1200P-50 B
C522	87-010-179-089		C-CAP,S 1200P-50 B
C601	87-010-404-089		CAP,E 4.7-50 SME
C602	87-010-237-089		CAP,E 1000-16
C603	87-010-101-089		CAP,E 220-16 SME
C604	87-010-237-089		CAP,E 1000-16
C605	87-010-198-089		C-CAP,S 0.022-25 B
C606	87-010-546-089		CAP,E 0.33-50 SME
C607	87-010-371-089		CAP,E 470-6.3
C608	87-010-198-089		C-CAP,S 0.022-25 B
C609	87-015-822-089		C-CAP 0.022
C610	87-010-196-089		C-CAP,S 0.1-25 F
C611	87-010-197-089		C-CAP,S 0.01-25 B
C751	87-010-546-089		CAP,E 0.33-50 SME
C752	87-010-546-089		CAP,E 0.33-50 SME
C753	87-010-405-089		CAP,E 10-50 SME
C754	87-010-405-089		CAP,E 10-50 SME
C755	87-010-263-089		CAP,E 100-10
C756	87-010-260-089		CAP,E 47-25 SME
C801	87-010-404-089		CAP,E 4.7-50 SME
C951	87-012-140-089		C-CAP,S 470P-50 CH
C952	87-010-186-089		C-CAP,S 4700P-50 B
CF801	89-MX1-704-089		CERA LOCK(MU)3.9MHZ
CON801	82-VW2-624-019		F-CABLE 3P-2.0
CON951	82-VW2-623-019		CORD,FG 9P 750
D151	87-070-108-019		LED,SLF301C-37
D152	87-070-108-019		LED,SLF301C-37
L301	87-005-525-089		COIL,22MH-J
L302	87-005-525-089		COIL,22MH-J
L303	87-003-131-089		COIL,10MH J
L304	87-003-131-089		COIL,10MH J
L305	87-003-123-089		COIL,2.2MH J
L306	87-003-123-089		COIL,2.2MH J
L401	80-VW1-605-119		COIL,OSC BIAS 108K
L601	87-005-474-089		COIL,12UH J FLR50
L602	87-005-239-019		COIL,100UH
R408	87-025-471-089		RES NF 4.7-1/4WJ
SFR101	87-024-349-089		SFR,1K DIA6 H
SFR102	87-024-349-089		SFR,1K DIA6 H
SFR201	87-024-349-089		SFR,1K DIA6 H
SFR202	87-024-349-089		SFR,1K DIA6 H
SFR301	87-024-353-089		SFR,10K DIA6 H
SFR302	87-024-353-089		SFR,10K DIA6 H
SFR401	87-024-356-089		SFR,47K DIA6 H
SFR402	87-024-356-089		SFR,47K DIA6 H

FRONT-1 C.B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
S905	87-036-215-089		SW,TACT EVQ21404M
S906	87-036-215-089		SW,TACT EVQ21404M
S907	87-036-215-089		SW,TACT EVQ21404M
S908	87-036-215-089		SW,TACT EVQ21404M

FRONT-2 C.B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
	82-VW1-201-019		GUIDE,FL
C901	87-010-263-089		CAP,E 100-10
C904	87-018-214-089		CAP,TC-U 0.1-50 F
C908	87-016-251-049		CAP,E 220-16 SMG
C910	87-014-067-089		CAP,PP 2700P-100 J
C912	87-010-407-089		CAP,E 33-50 SME
C913	87-018-214-089		CAP,TC-U 0.1-50 F
C914	87-018-214-089		CAP,TC-U 0.1-50 F
C915	87-018-134-089		CAP,TC-U 0.01-16
CF901	89-MX1-704-089		CERA LOCK(MU)3.9MHZ
FL901	82-VW1-621-019		FL,BJ125GK
FR901	87-025-471-089		RES NF 4.7-1/4WJ
FR902	87-025-471-089		RES NF 4.7-1/4WJ
L901	87-003-051-089		COIL,470UH
L902	87-003-102-089		COIL,10UH
S901	87-036-215-089		SW,TACT EVQ21404M
S902	87-036-215-089		SW,TACT EVQ21404M
S903	87-036-215-089		SW,TACT EVQ21404M
S904	87-036-215-089		SW,TACT EVQ21404M
S909	87-036-215-089		SW,TACT EVQ21404M
S911	87-036-215-089		SW,TACT EVQ21404M
S912	87-036-215-089		SW,TACT EVQ21404M
S913	87-036-215-089		SW,TACT EVQ21404M
S914	87-036-215-089		SW,TACT EVQ21404M
S915	87-036-215-089		SW,TACT EVQ21404M
S916	87-036-215-089		SW,TACT EVQ21404M
S917	87-036-215-089		SW,TACT EVQ21404M
T901	82-VW1-623-019		COIL FL

DECK-1 C.B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
M1	87-045-348-010		MOT,SHW2L-70
PIN701	87-009-236-010		CONN,8P PH H
SFR1	87-024-170-080		SFR,3.3K DIA 6V
SFR2	87-024-171-080		SFR,5.0K DIA 6V
SOL1	82-ZM1-618-010		SOL ASSY,27
SW4	87-036-378-080		SW,PUSH 1-1-1 SH2
SW5	87-036-378-080		SW,PUSH 1-1-1 SH2
SW6	87-036-378-080		SW,PUSH 1-1-1 SH2

DECK-2 C.B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
M2	87-045-348-010		MOT,SHW2L-70
PIN702	87-009-752-010		CONN,11P PH H WHT
SFR1	87-024-170-080		SFR,3.3K DIA 6V
SFR2	87-024-171-080		SFR,5.0K DIA 6V
SOL2	82-ZM1-618-010		SOL ASSY,27
SW1	87-036-110-010		SW,PUSH SPPB 62
SW2	87-036-110-010		SW,PUSH SPPB 62
SW3	87-036-110-010		SW,PUSH SPPB 62
SW4	87-036-110-010		SW,PUSH SPPB 62
SW5	87-036-110-010		SW,PUSH SPPB 62
SW6	87-036-110-010		SW,PUSH SPPB 62

RELAY-1 C.B

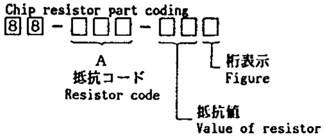
REF. NO	PART NO.	カンリ NO.	DESCRIPTION
PH	87-046-355-010		HEAD,PH HADKH2529B(D1)

RELAY-2 C.B

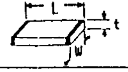
REF. NO	PART NO.	カンリ NO.	DESCRIPTION
RPEH	87-046-356-010		HEAD,RPH HADKH5581B(D2)

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

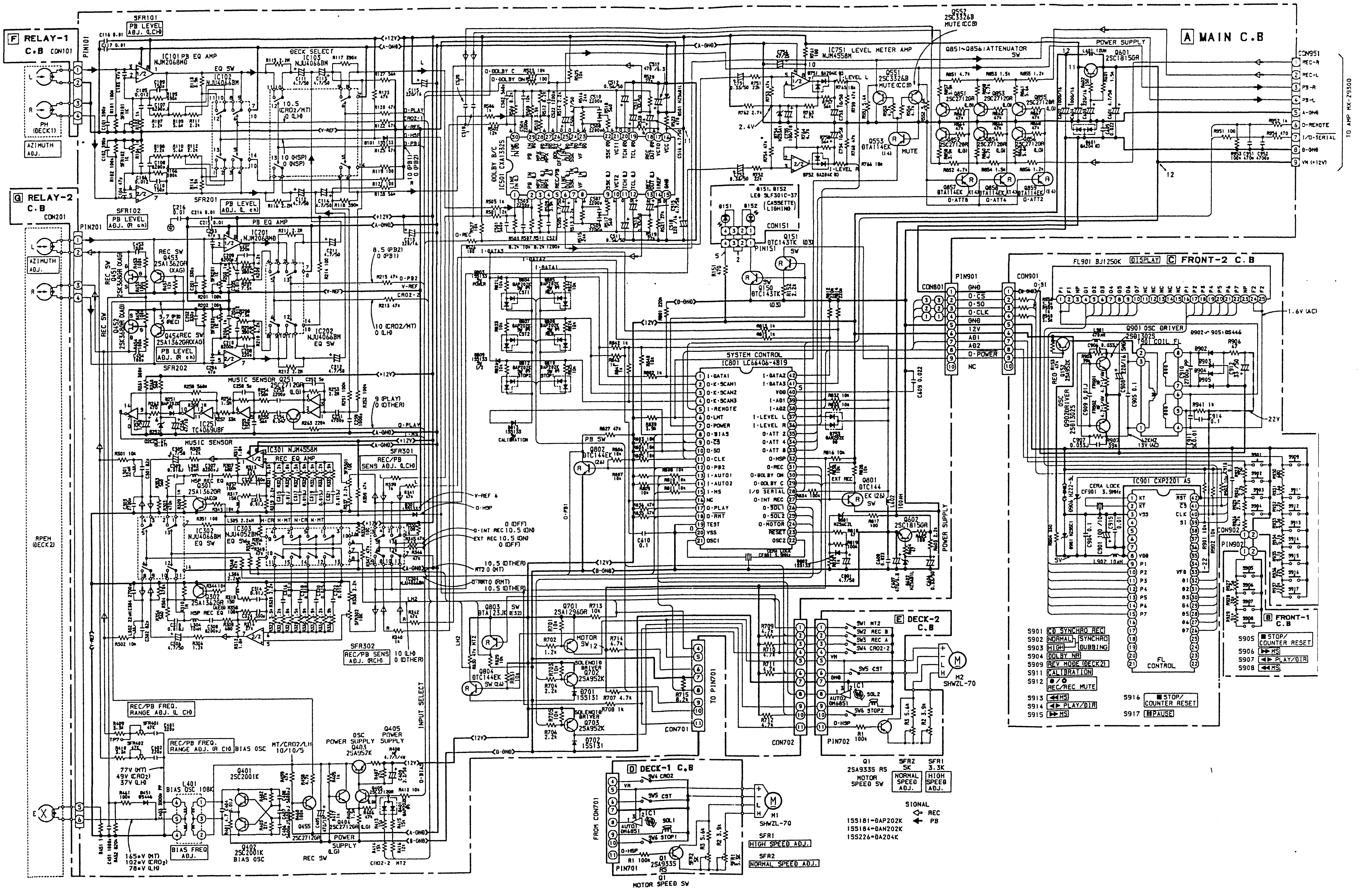
チップ抵抗部品コードの成り立ち
Chip resistor part coding



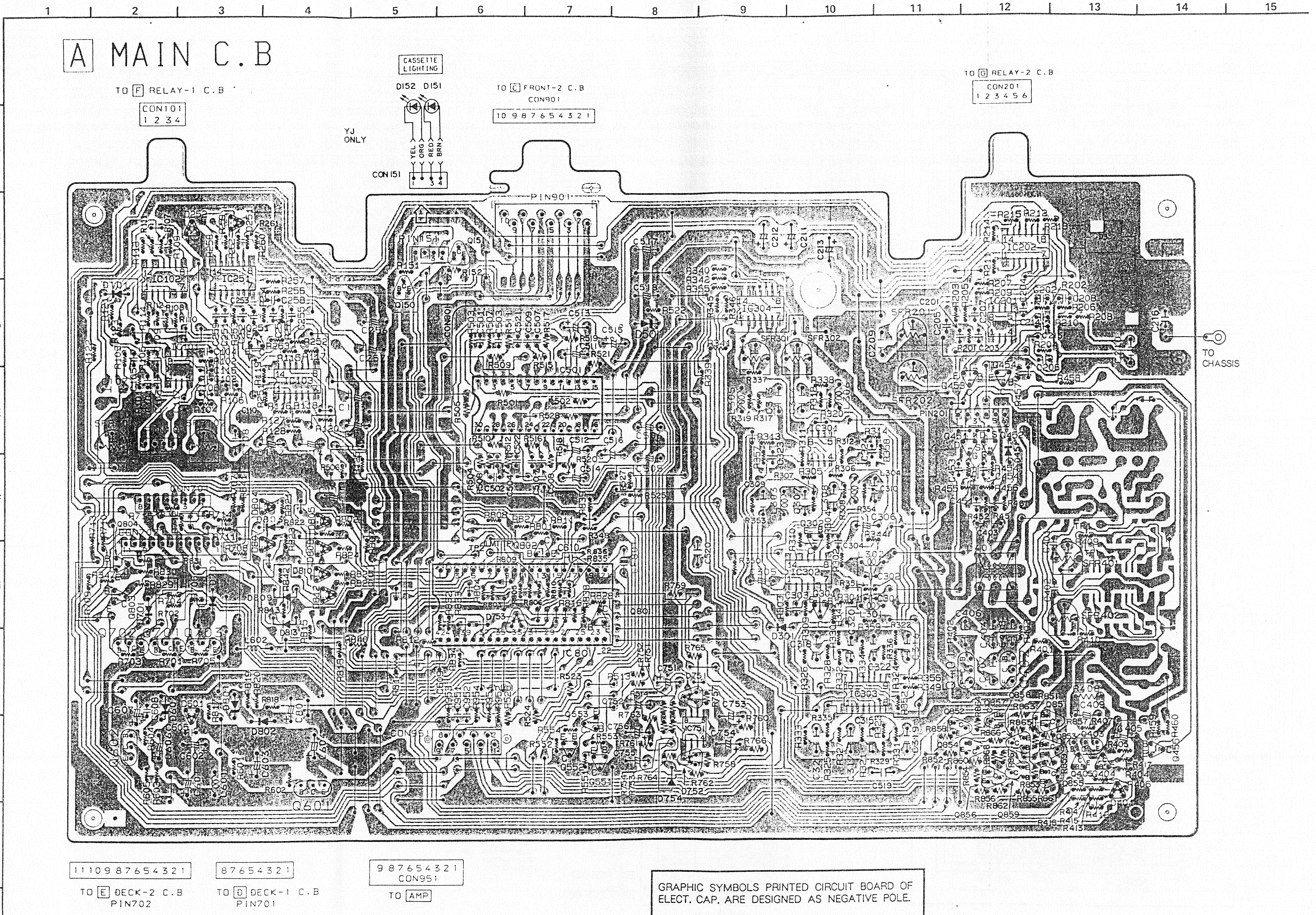
チップ抵抗
Chip resistor

Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Dimensions／寸法(mm)				Resistor Code : A 抵抗コード : A
				Form/外形	L	W	t	
1/32W	1608	±5%	CJ		1.6	0.8	0.35	108
1/10W	2125	±5%	CJ		2	1.25	1.45	118
1/8W	3216	±5%	CJ		3.2	1.6	0.5 ~0.7	128

SCHEMATIC DIAGRAM (FX-WZ9300)


F RELAY-1 C.B
G RELAY-2 C.B
A MAIN C.B
C FRONT-2 C.B
B FRONT-1 C.B
E DECK-2 C.B
D DECK-1 C.B
IC101 PB EQ AMP NJM2068MD
IC102 NJU4066BM EQ SW
IC103 NJU4066BM DECK SELECT
IC201 NJM2068MD PB EQ AMP
IC202 NJU4066BM EQ SW
IC251 TC4069UBF MUSIC SENSOR
IC301 NJM4558M REC EQ AMP
IC302 NJU4066BM EQ SW
IC303 NJU4052BM EQ SW
IC501 CXA1332S DOLBY B/C
IC751 NJM4558M LEVEL METER AMP
IC801 LC66406-4B19 SYSTEM CONTROL
IC901 CXP2201 AS FL CONTROL
FL901 BJ1250K DISPLAY
Q851~Q856: ATTENUATOR SW
Q601 2SC1815GR POWER SUPPLY
Q552 2SC3326B MUTE (CCB)
Q551 2SC3326B MUTE (CCB)
Q553 DTA114EK MUTE
Q901 OSC DRIVER
Q401 2SC2001K BIAS OSC
Q402 2SC2001K BIAS OSC
L401 BIAS OSC 108K
Q701 2SA1296GR
Q702 2SA952K SOLENOID DRIVER
Q703 2SA952K SOLENOID DRIVER
M1 SHWZL-70
M2 SHWZL-70
CON951 TO AMP MX-Z9300
SFR101 PB LEVEL ADJ. (L CH)
SFR102 PB LEVEL ADJ. (R CH)
SFR301 REC/PB SENS ADJ. (L CH)
SFR302 REC/PB SENS ADJ. (R CH)
SFR401 REC/PB FREQ. RANGE ADJ. (L CH)
SFR402 REC/PB FREQ. RANGE ADJ. (R CH)
L401 BIAS FREQ ADJ.
SFR1 HIGH SPEED ADJ.
SFR2 NORMAL SPEED ADJ.
S901 CD SYNCHRO REC
S902 NORMAL SYNCHRO
S903 HIGH DUBBING
S904 DOLBY NR
S909 REV MODE (DECK2)
S911 CALIBRATION
S912 ●/○ REC/REC MUTE
S913 ◀◀MS
S914 ◀▶ PLAY/DIR
S915 ▶▶MS
S916 ■STOP/COUNTER RESET
S917 ❚❚PAUSE
S905 ■STOP/COUNTER RESET
S906 ▶▶MS
S907 ◀▶ PLAY/DIR
S908 ◀◀MS
SIGNAL
⇦ REC
◀ PB
1SS181=DAP202K
1SS184=DAN202K
1SS226=DA204K
Q1 2SA933S RS MOTOR SPEED SW

WIRING – 1 (FX-WZ9300)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15
A
B
C
D
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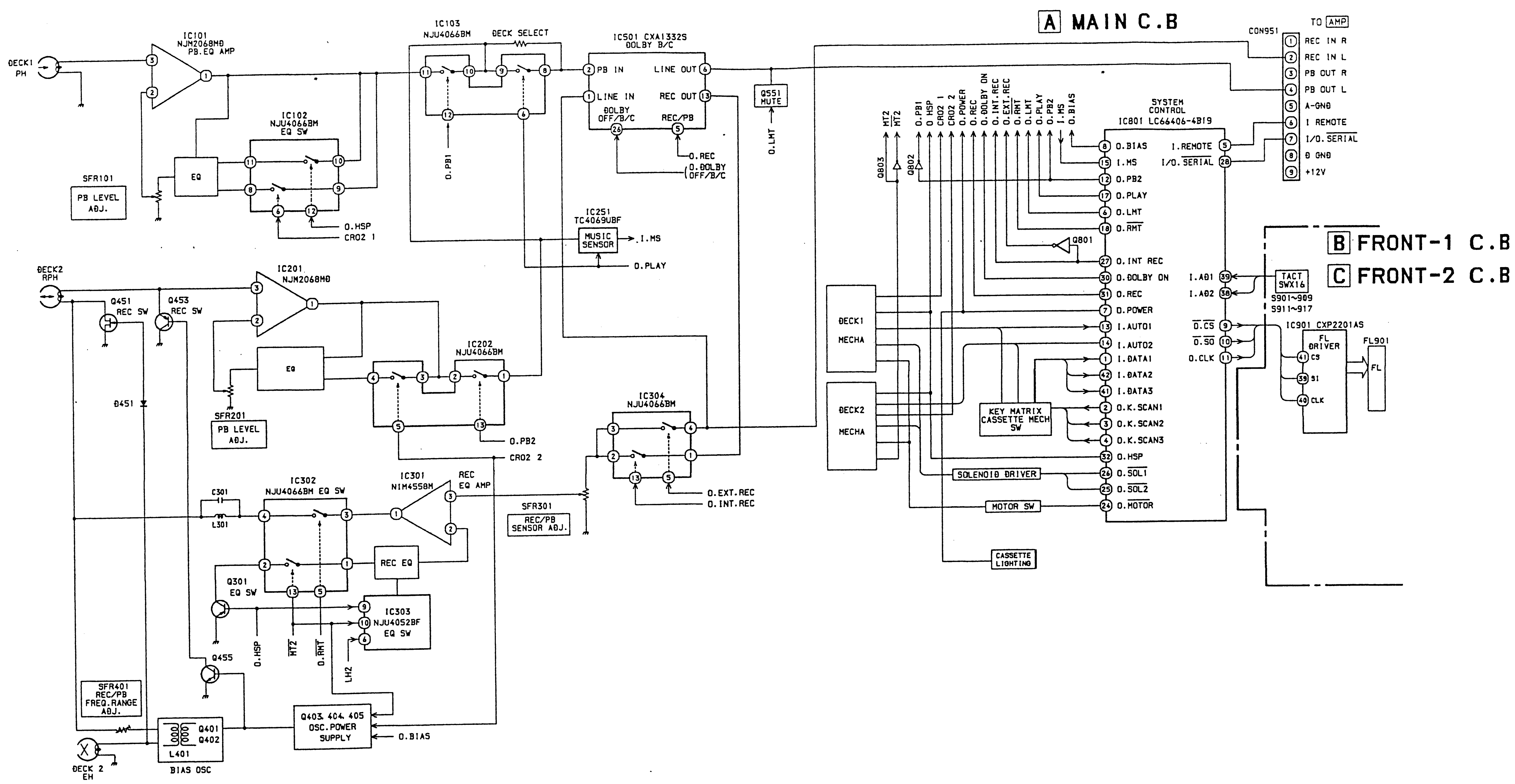
F
G
H
I
J
K
A MAIN C.B
TO F RELAY-1 C.B
CON101
1 2 3 4
CASSETTE LIGHTING
D152 D151
YEL
ORG
RED
BRN
YJ ONLY
CON151
1 3 4
TO C FRONT-2 C.B
CON901
10 9 8 7 6 5 4 3 2 1
PIN901
TO G RELAY-2 C.B
CON201
1 2 3 4 5 6
TO CHASSIS
IC102
IC251
IC103
IC501
IC801
IC302
IC303
IC304
IC202
IC751
CON951
PIN201
11 10 9 8 7 6 5 4 3 2 1
TO E DECK-2 C.B
PIN702
8 7 6 5 4 3 2 1
TO D DECK-1 C.B
PIN701
9 8 7 6 5 4 3 2 1
CON951
TO AMP

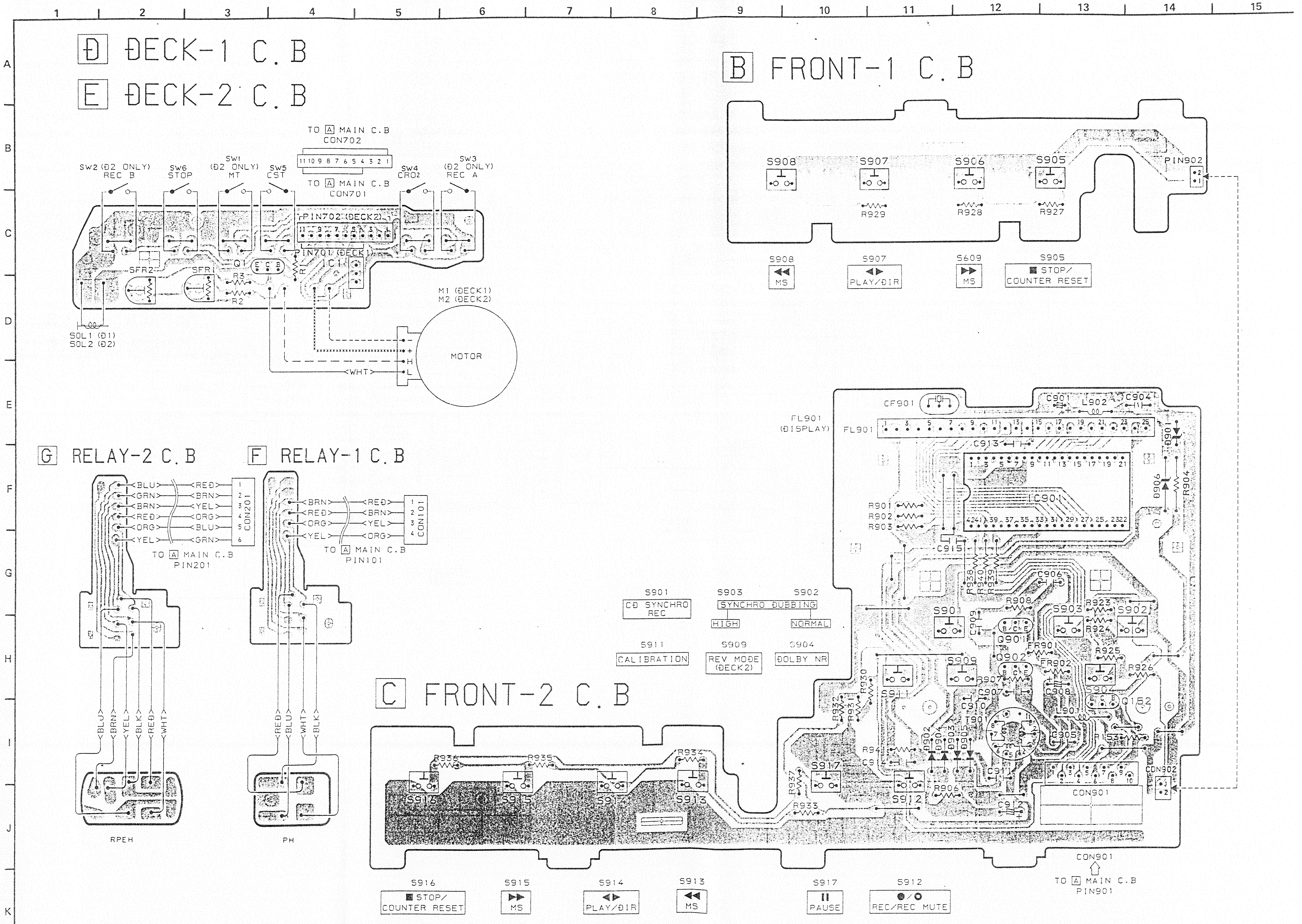
GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

(プリント基板内のケミコンの極性表示は⊖表示です。)

BLOCK DIAGRAM (FX-WZ9300)

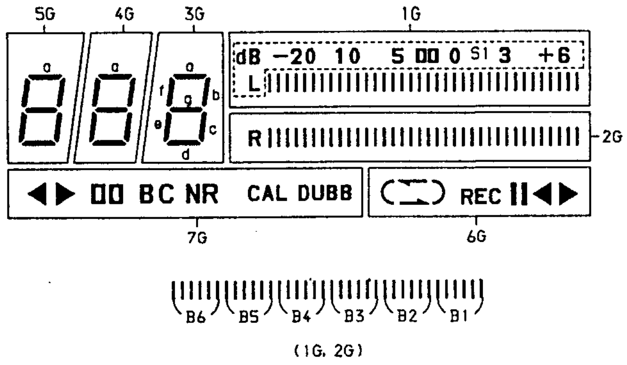

A MAIN C.B
B FRONT-1 C.B
C FRONT-2 C.B
DECK1 PH
IC101 NJM2068MD PB.EQ AMP
SFR101 PB LEVEL ADJ.
EQ
IC102 NJU4066BM EQ SW
O.HSP
CRO2 1
IC103 NJU4066BM
DECK SELECT
O.PB1
IC501 CXA1332S DOLBY B/C
PB IN
LINE OUT
LINE IN
REC OUT
DOLBY OFF/B/C
REC/PB
O.REC
O.DOLBY OFF/B/C
Q551 MUTE
O.LMT
IC251 TC4069UBF
MUSIC SENSOR
I.MS
O.PLAY
DECK2 RPH
Q451 REC SW
Q453 REC SW
IC201 NJM2068MD
IC202 NJU4066BM
SFR201 PB LEVEL ADJ.
O.PB2
CRO2 2
D451
IC304 NJU4066BM
O.EXT.REC
O.INT.REC
SFR301 REC/PB SENSOR ADJ.
IC302 NJU4066BM EQ SW
C301
L301
IC301 NJM4558M REC EQ AMP
REC EQ
Q301 EQ SW
IC303 NJU4052BF EQ SW
O.HSP
MT2
O.RMT
LH2
Q455
SFR401 REC/PB FREQ.RANGE ADJ.
Q401
Q402
L401
BIAS OSC
DECK 2 EH
Q403, 404, 405 OSC.POWER SUPPLY
O.BIAS
CON951
TO AMP
REC IN R
REC IN L
PB OUT R
PB OUT L
A-GND
I REMOTE
I/O.SERIAL
D GND
+12V
MT2
MT2
Q803
Q802
O.PB1
O HSP
CRO2 1
CRO2 2
O.POWER
O.REC
O.DOLBY ON
O.INT.REC
O.EXT.REC
O.RMT
O.LMT
O.PLAY
O.PB2
I.MS
O.BIAS
SYSTEM CONTROL
IC801 LC66406-4B19
O.BIAS
I.MS
O.PB2
O.PLAY
O.LMT
O.RMT
Q801
O.INT REC
O.DOLBY ON
O.REC
O.POWER
I.AUTO1
I.AUTO2
I.DATA1
I.DATA2
I.DATA3
O.K.SCAN1
O.K.SCAN2
O.K.SCAN3
O.HSP
O.SOL1
O.SOL2
O.MOTOR
I.REMOTE
I/O.SERIAL
I.AD1
I.AD2
O.CS
O.SO
O.CLK
DECK1 MECHA
DECK2 MECHA
KEY MATRIX CASSETTE MECH SW
SOLENOID DRIVER
MOTOR SW
CASSETTE LIGHTING
TACT SWX16
S901~909
S911~917
IC901 CXP2201AS
FL DRIVER
CS
SI
CLK
FL901
FL

WIRING – 2 (FX-WZ9300)


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
A
B
C
D
E
F
G
H
I
J
K
D DECK-1 C.B
E DECK-2 C.B
TO A MAIN C.B
CON702
11 10 9 8 7 6 5 4 3 2 1
TO A MAIN C.B
CON701
SW2 (D2 ONLY)
REC B
SW6
STOP
SW1
(D2 ONLY)
MT
SW5
CST
SW4
CRO2
SW3
(D2 ONLY)
REC A
PIN702 (DECK2)
PIN701 (DECK1)
SFR2
SFR1
Q1
E C B
R3
R2
R1
IC1
M1 (DECK1)
M2 (DECK2)
MOTOR
WHT
−
+
H
L
SOL1 (D1)
SOL2 (D2)
B FRONT-1 C.B
S908
S907
S906
S905
PIN902
R929
R928
R927
S908
MS
S907
PLAY/DIR
S609
MS
S905
■ STOP/
COUNTER RESET
G RELAY-2 C.B
BLU
GRN
BRN
RED
ORG
YEL
RED
BRN
YEL
ORG
BLU
GRN
CON201
TO A MAIN C.B
PIN201
BLU
BRN
YEL
BLK
RED
WHT
RPEH
F RELAY-1 C.B
BRN
RED
ORG
YEL
RED
BRN
YEL
ORG
CON101
TO A MAIN C.B
PIN101
RED
BLU
WHT
BLK
PH
CF901
FL901
(DISPLAY)
FL901
C901
L902
C904
D901
C913
IC901
D906
R904
R901
R902
R903
C915
R938
R940
R939
C906
R908
R923
S903
S902
S901
C909
Q901
R924
FR901
R925
Q902
S909
FR902
R926
C907
C908
S904
Q152
S911
R930
R932
R931
C910
T901
L901
D902
D904
D903
D905
C905
R94
C9
S917
R937
C911
R933
S912
R906
C912
CON902
CON901
S901
CD SYNCHRO
REC
S903
SYNCHRO DUBBING
HIGH
S902
NORMAL
S911
CALIBRATION
S909
REV MODE
(DECK2)
S904
DOLBY NR
C FRONT-2 C.B
R936
R935
R934
S916
S915
S914
S913
CON901
TO A MAIN C.B
PIN901
S916
■ STOP/
COUNTER RESET
S915
MS
S914
PLAY/DIR
S913
MS
S917
PAUSE
S912
REC/REC MUTE

FL (BJ125GK) (FX-WZ9300)

GRID ASSIGNMENT

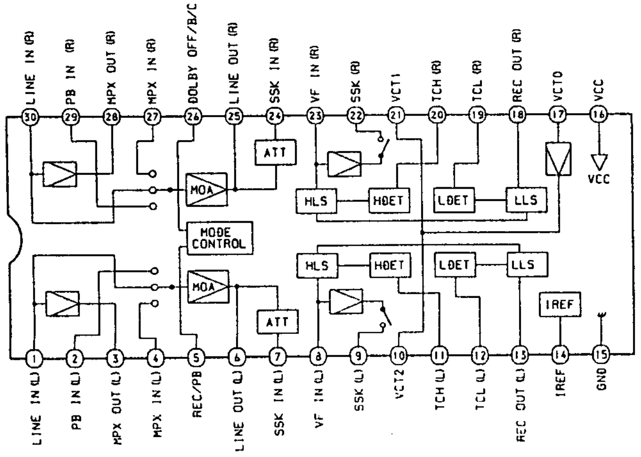

5G
4G
3G
1G
2G
7G
6G
a
b
c
d
e
f
g
dB −20 10 5 DD 0 S1 3 +6
L
R
◀▶ DD BC NR CAL DUBB
REC II◀▶
B6
B5
B4
B3
B2
B1
(1G, 2G)

ANODO CONNECTION

	7G	6G	5G	4G	3G	2G	1G
P1	**DUBB**	▶	a	a	a	B1	B1
P2	**CAL**	◀	b	b	b	B2	B2
P3	**C**	II	c	c	c	B3	B3
P4	**B**	**REC**	d	d	d	B4	B4
P5	**DD NR**	)	e	e	e	B5	B5
P6	▶	⇄	f	f	f	B6	B6
P7	◀	(	g	g	g	**R**	S1

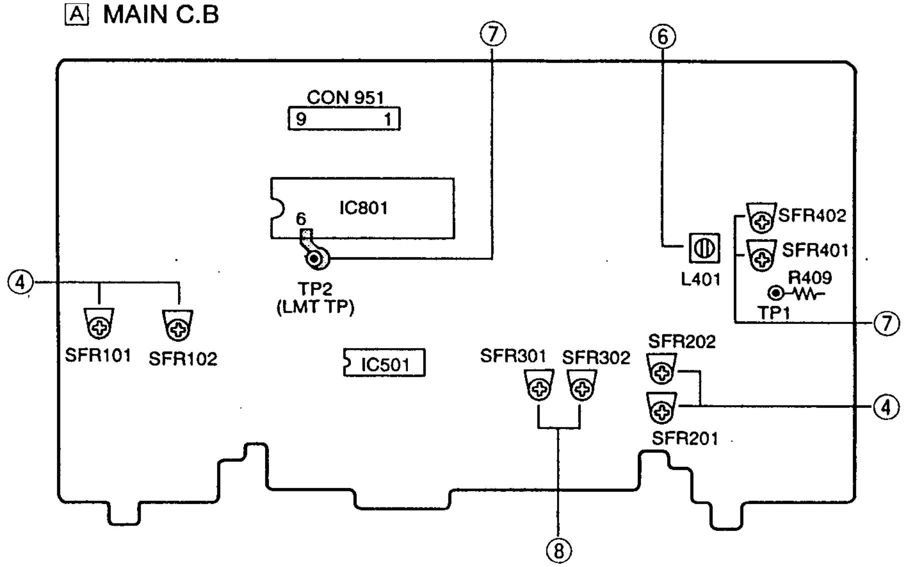
IC BLOCK DIAGRAM (FX-WZ9300)

IC, CXA1332S


LINE IN (R)
PB IN (R)
MPX OUT (R)
MPX IN (R)
DOLBY OFF/B/C
LINE OUT (R)
SSK IN (R)
VF IN (R)
SSK (R)
VCT1
TCH (R)
TCL (R)
REC OUT (R)
VCTO
VCC
30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
ATT
MOA
HLS
HDET
LDET
LLS
VCC
MODE CONTROL
MOA
HLS
HDET
LDET
LLS
ATT
IREF
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
LINE IN (L)
PB IN (L)
MPX OUT (L)
MPX IN (L)
REC/PB
LINE OUT (L)
SSK IN (L)
VF IN (L)
SSK (L)
VCT2
TCH (L)
TCL (L)
REC OUT (L)
IREF
GND

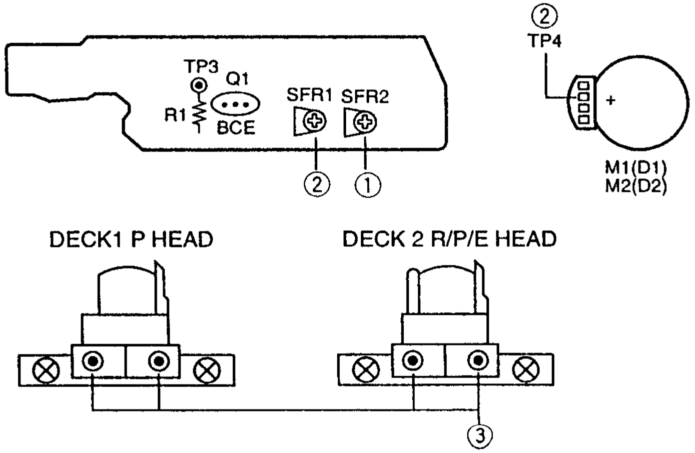
ADJUSTMENT (FX-WZ9300)

A MAIN C.B


⑦
⑥
CON 951
9
1
IC801
6
TP2
(LMT TP)
④
SFR101
SFR102
IC501
SFR301
SFR302
SFR202
SFR201
SFR402
SFR401
L401
R409
TP1
⑦
④
⑧

D DECK-1 C.B

E DECK-2 C.B


TP3
Q1
R1
BCE
SFR1
SFR2
②
①
②
TP4
+
M1(D1)
M2(D2)
DECK1 P HEAD
DECK 2 R/P/E HEAD
③

1.Normal speed adjustment (DECK1,DECK2)

Settings: ·Test tape:TTA-100
·Test point:PB-OUT (CON951)
·Adjustment location:SFR2

Method: Play back the test tape, adjust for 3000 ± 7Hz.

2.High speed adjustment (DECK1,DECK2)

Settings: ·Test tape:TTA-100
·Test point:PB-OUT (CON951)
·Adjustmnt location:SFR1

Method: After normal speed adjustment, play back the test tape, and make the high speed condition to be shorted between TP3 and TP4. Adjust for 6000 ± 10Hz.

3.Head azimuth adjustment (DECK1,DECK2)

Settings: ·Test tape:TTA-310
·Test point:PB-OUT (CON951)
·Adjustment location: Head azimuth adjustment screw

Method: Play back the 10kHz signal of the test tape and adjust so that the output becomes maximum in each FWD PLAY and REV PLAY mode.

4.PB level adjustment (DECK1,DECK2)

Settings: ·test tape:TTA-200
·Test point:PB-OUT (CON951)
·Adjustment location: SFR101 (DECK1, Lch)
SFR102 (DECK1, Rch)
SFR201 (DECK2, Lch)
SER202 (DECK2, Rch)

Method: Play back the test tape and adjust so that the output becomes 280mV ± 15mV.

5.FWD/REV play back output difference check (DECK1, DECK2)

Settings: ·Test tape:TTA-200
·Test point:PB-OUT (CON951)

Method: Play back the test tape and make sure that the output difference between the FWD and REV modes is 0dB ± 0.7dB.

6.Bias frequency adjustment (DECK2)

Settings: ·Test tape:TTA-602
·Test point:TP1
·Adjustment location:L401

Method: Set DECK2 to the record mode and adjust L401 so that the frequency at TP1 is 107.5kHz ± 1.5kHz.

7.REC/PB frequency response adjustment (DECK2)

Settings: ·Test tape:TTA-602
·Test point:PB-OUT (CON951)
·Adjustment location: SFR401 (Lch)
SFR402 (Rch)

Method: Connect TP2(LMT TP) to ground(chassis), apply a 1kHz signal and adjust attenuator so that the level at the PB OUT is 25mV.
Record and play back the 1kHz and 10kHz signals and adjust so that the output level of 10kHz is +0.5dB ± 0.3dB for 1kHz signal.
After adjustment, remove the grounding lead wire.

8.REC/PB sensitivity adjustment (DECK2)

Settings: ·Test tape:TTA-602
·Test point:PB-OUT (CON951)
·Adjustment location: SFR301 (Lch)
SFR302 (Rch)

Method: Connect TP2(LMT TP) to ground(chassis), apply a 1kHz signal and adjust attenuator so that the level at the output level of is 0dB ± 0.3dB.
After adjustment, remove the grounding lead wire.

PRACTICAL SERVICE FIGURE

PB output level:	280mV±34mV(TTA-200)
REC/PB output level:	250mV±1dB(PB-OUT, 1kHz)
Distortion(REC/PB):	Less than 1.5%(NORM) Less than 2.0%(CrO2, MT)
Erasing ratio:	More than 60dB
Crosstalk:	More than 60dB
Channel separation:	More than 35dB
Noise(REC/PB):	Less than 2.0mV (DOLBY OFF NORM) Less than 1.0mV (DOLBY B ON MT) Less than 0.8mV (DOLBY C ON CrO2, MT)
Noise(PB):	Less than 1.8mV (DOLBY OFF NORM) Less than 0.9mV (DOLBY B ON CrO2) Less than 0.8mV (DOLBY C ON CrO2)
Recording bias frequency:	108kHz
Tape speed:	3000Hz ± 1.5%
Wow & flutter(W.RMS):	Less than 0.18%(DECK1,2)
Take-up torque:	30 ~ 55g-cm(DECK1,2)
F.F & REW torque:	75 ~ 180g-cm(DECK1,2)
Back tension:	2 ~ 7g-cm(DECK1,2)
Test tape:	NORMAL:TTA-602 CrO2:TTA-610 METAL:TTA-630

IC, DESCRIPTION (FX-WZ9300)

IC, LC66406-4B19

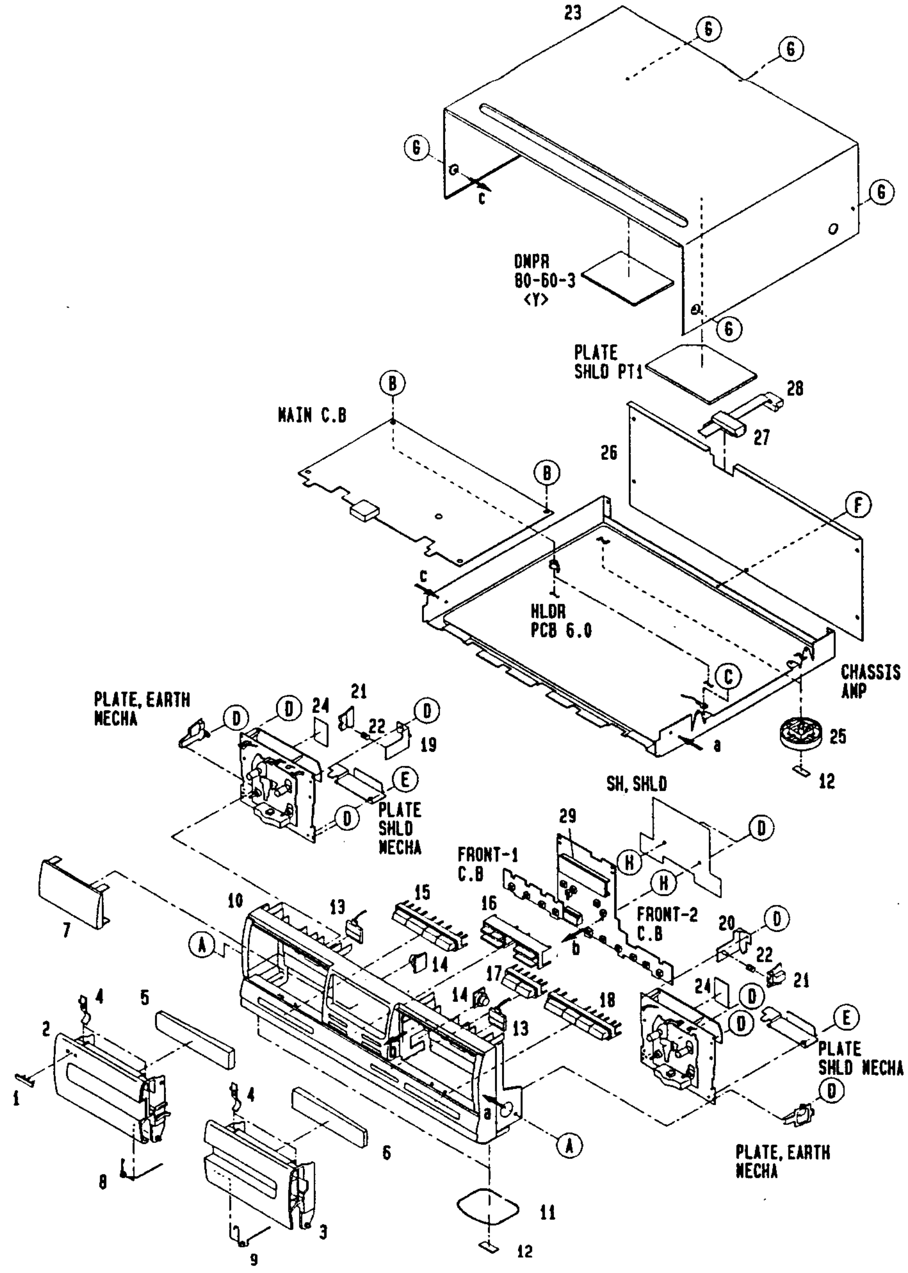
Pin No.	Pin Name	I/O	Description			
			KEY DATA input			
			When K · SCAN 1 is "H"	When K · SCAN 2 is "H"	When K · SCAN 3 is "H"	When K · SCAN 4 is "H"
1	DATA1	I	DECK 2 REC A SW input	DECK 2 REC B SW input	DECK 2 STOP SW input	SW CD HIGH SPEED(ON/OFF)
42	DATA2	I	DECK 1 CST SW input	DECK 2 CST SW input	DECK 2 STOP SW input	SW CAL (Calibration ON/OFF)
41	DATA3	I	SW · POWER input	SW · DOLBY C (ON/OFF)	DECK 1/2 SW input	
2	O·K·SCAN1	O	SCAN output terminal of DATA 1~3.			
3	O·K·SCAN2	O				
4	O·K·SCAN3	O				
5	I·REMOTE	I	Serial data input terminal of controller.			
6	O·LMT	O	Output terminal for record/playback monitor output signal muting. "H" at muting.			
7	O·POWER	O	POWER ON/OFF control.			
8	O·BIAS	O	Bias oscillation output terminal for DECK 2. "H" at recording/dubbing. "L" at resetting.			
9	O·STB($\overline{\text{CS}}$)	O	Strobe signal for the shift register (IC,BU4094).			
10	O·DATA(SO)/ K·SCAN4	O	Serial data for the shift register PLL IC.			
11	O·CLK	O	Serial data clock signal for the shift register PLL IC.			
12	O·PB2	O	Playback output control terminal for DECKS 1 and 2. "H" at playback with DECK 2.			
13	I·AUTO1	I	Reel pulse input terminal for DECK 1.			
14	I·AUTO2	I	Reel pulse input terminal for DECK 2.			
15	I·MS	I	MS signal input terminal. Active "H".			
16	NC	—	Not used.			
17	O·PLAY	O	Cue/review mute output and MS sensitivity switching output terminal. "H" at playback.			
18	O·$\overline{\text{RMT}}$	O	Muting output terminal for recording input. "H" at record mute, record start, record clear and record pause.			
19	TEST	—	MPU test terminal. Connected with Vss.			
20	VSS	—	Common terminal for MPU I/O and power supply.			
21~22	OSC1~OSC2	—	3.9MHz Oscillation terminal.			
23	$\overline{\text{RESET}}$	I	Reset input terminal. Active "L".			
24	O·$\overline{\text{MOTOR}}$	O	Main motor control output terminal for DECKS 1 and 2. "L" with both DECKS at STOP.			
25	O·$\overline{\text{SOL2}}$	O	Solenoid drive output terminal for DECK2. Active "L".			
26	O·$\overline{\text{SOL1}}$	O	Solenoid drive output terminal for DECK1. Active "L".			
27	O·INT REC	O	Recording input source switching output terminal for DECK 2. "H":DECK 1 at STOP, FF or REW (with DECK NOR, DECK HI, CD NOR, DECK 2 REC). "L":In other modes:DECK 2 at REC, etc.(with CD HI, DECK 2 PLAY/STOP, DECK 1 PLAY).			
28	I/O·$\overline{\text{SERIAL}}$	I/O	Input/output terminal for serial data with CD, AMPLIFIER and TUNER.			
29	NC	—	Not used.			
30	O·DOLBY ON	O	DOLBY NR ON/OFF switching output terminal. "H" at DOLBY NR ON.			

Pin No.	Pin Name	I/O	Description
31	O·REC	O	DOLBY encoder/decoder switching output terminal. "H" at recording and "L" at dubbing.
32	O·HSP	O	High-speed control output terminal for DECKS 1 and 2. "H" at HIGH SPEED DUBBING.
33~37	NC	—	Not used.
38~39	I·AD2~IAD1	I	Key function control input terminal.
40	VDD	—	Power terminal(+5V).

IC, CXP2201AS

Pin No.	Pin Name	I/O	Description
1	EXT	I	Ceramic connector for system clock oscillator use. When using an external clock, input to EXT, and leave XT open.
2	$\overline{\text{XT}}$	O	Ceramic connector for system clock oscillator use. When using an external clock, input to EXT, and leave XT open.
3	VSS	—	Connect Vss.
4~7	NC	—	Not used.
8	VDD	—	Connect VDD.
9~15	P1~P7	O	Exclusive segment output (with built-in pull-down resistor.).
16~25	NC	—	Not used.
26~32	G7~G1	O	Exclusive timing output (with built-in pull-down resistor).
33	VFDP	—	Load power supply for FDP.
34~38	NC	—	Not used.
39	SI	I	Serial data input.
40	CLK	I	Shift clock input.
41	$\overline{\text{CS}}$	I	Chip select input.
42	$\overline{\text{RST}}$	I/O	Reset (with built-in pull-up resistor and power-on reset circuit).

MECHANICAL EXPLODED VIEW 1/1 (FX-WZ9300)


23
G
G
G
c
G
DMPR
80-60-3
<Y>
G
PLATE
SHLD PT1
28
B
MAIN C.B
27
26
B
F
c
HLDR
PCB 6.0
C
CHASSIS
AMP
PLATE, EARTH
MECHA
D
D
24
21
22
D
19
E
D
PLATE
SHLD
MECHA
a
25
12
SH, SHLD
D
29
FRONT-1
C.B
H
H
FRONT-2
C.B
7
10
13
15
16
A
14
b
20
D
22
21
17
14
18
24
D
D
13
E
PLATE
SHLD MECHA
4
5
2
1
D
4
8
6
a
A
PLATE, EARTH
MECHA
11
3
9
12

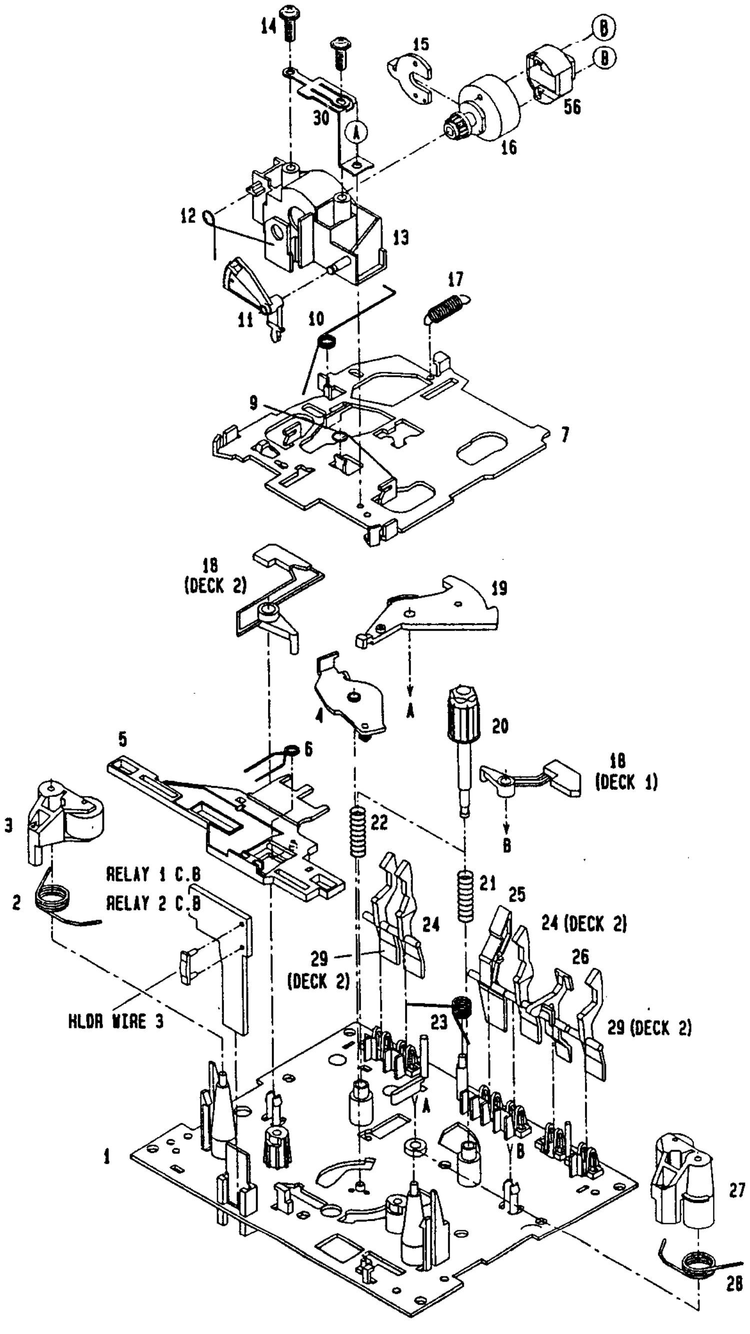
MECHANICAL PARTS LIST 1/1 (FX-WZ9300)

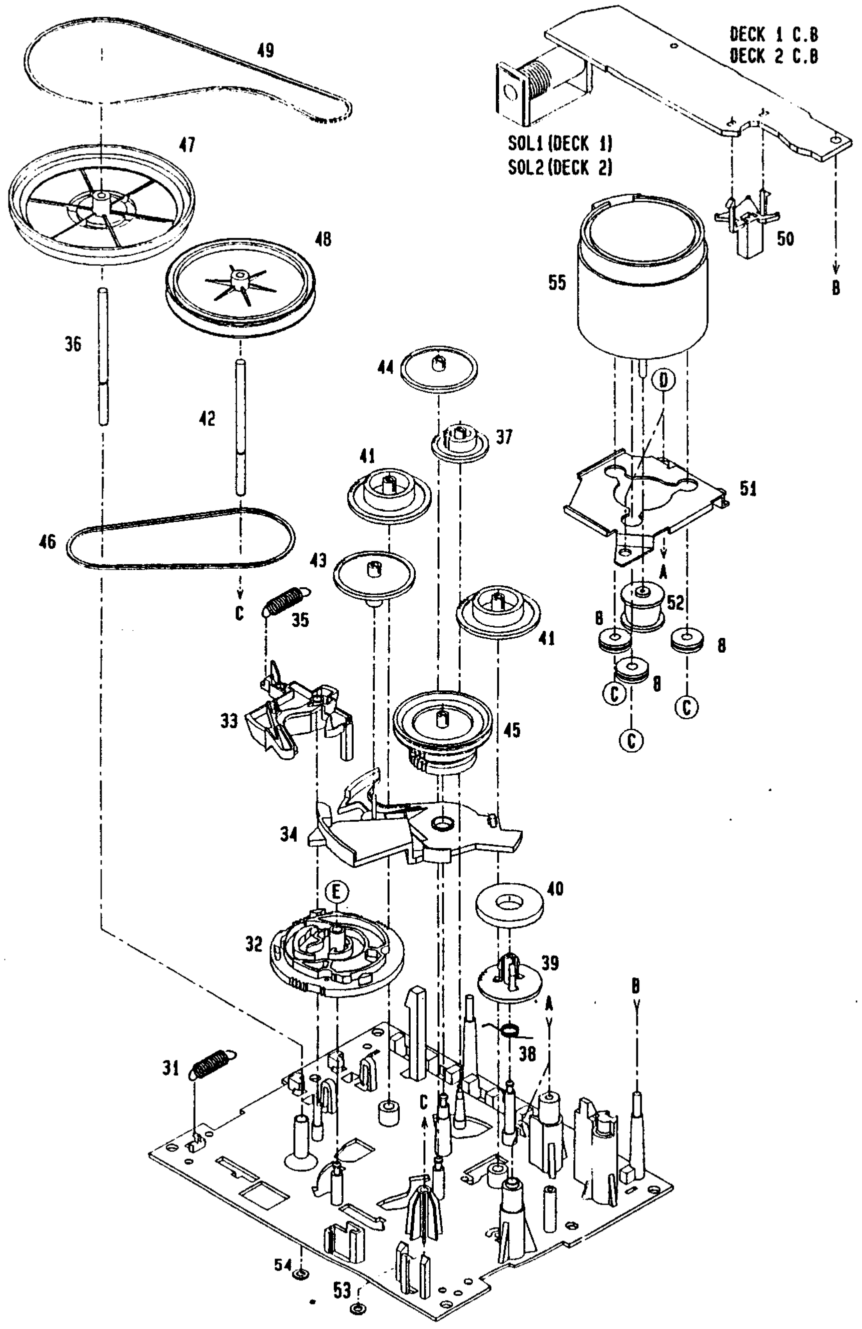
DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
1	82-NE8-032-019		BADGE AIWA 27.5
2	85-VW1-002-019		BOX, CASS 1
3	85-VW1-003-019		BOX, CASS 2
4	80-CD3-218-110		SPR-P CASS
5	85-VW1-008-019		WINDOW, BOX 1
6	85-VW1-009-019		WINDOW, BOX 2
7	85-VW1-007-019		WINDOW, DISPLAY
8	82-NF5-219-019		SPR-T, EJECT 2 (SIN)
9	82-NF5-218-019		SRT-T, EJECT 1 (SIN)
10	85-VW1-001-019		CAB, FR
11	84-VM5-013-010		RING, FOOT
12	82-VW2-211-019		FELT, 20-7.5-2
13	87-070-108-019		LED SLF301C-37
14	87-063-165-019		OIL-DMPR 150
15	85-VW1-004-019		KEY, PLAY 1
16	85-VW1-006-019		KEY, DUBB
17	85-VW1-005-019		KEY, REC
18	85-VW1-012-019		KEY, PLAY 2
19	82-NF5-227-019		HLDR, LOCK 2N
20	82-NF5-226-019		HLDR LOCK 1N

REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
21	82-NF5-229-019		PLATE, LOCK
22	82-NF5-228-019		SPR-C, LOCK
23	81-VW1-017-119		CAB, STEEL
24	80-MK2-206-010		DMPR 27-44.5-3
25	81-VX1-012-019		FOOT, REAR
26	85-VW1-010-019		PANEL, REAR YBN(Y)
26	85-VW1-011-019		PANEL, REAR YJBN(YJ)
27	89-VT5-202-010		BUSHING CORD
28	82-VW2-623-019		CORD, FG 9P 750
29	82-VW1-201-019		GUIDE, FL
A	87-721-095-419		OT2+3-8GLD W/O SLOT
B	87-067-776-019		BVT2+3-12W, CONVEX
C	87-067-584-019		BVT2+3-6 W/O SLOT
D	87-067-703-019		BVT2+3-10 (W/O SLOT)
E	87-067-178-019		VTT+2.6-3
F	87-067-660-019		BVT2+3-8W/O SLOT BLK
G	87-743-094-419		UT 2+3-6 W/O SLOT BLK
H	87-067-130-010		FW3-8-1

TAPE MECHANISM EXPLODED VIEW 1/1 (FX-WZ9300)


14
15
B
B
30
A
56
16
12
13
17
11
10
9
7
18 (DECK 2)
19
4
A
20
5
6
18 (DECK 1)
B
3
22
RELAY 1 C.B
RELAY 2 C.B
2
21
25
24
24 (DECK 2)
29
(DECK 2)
26
23
HLDR WIRE 3
29 (DECK 2)
A
B
1
27
28

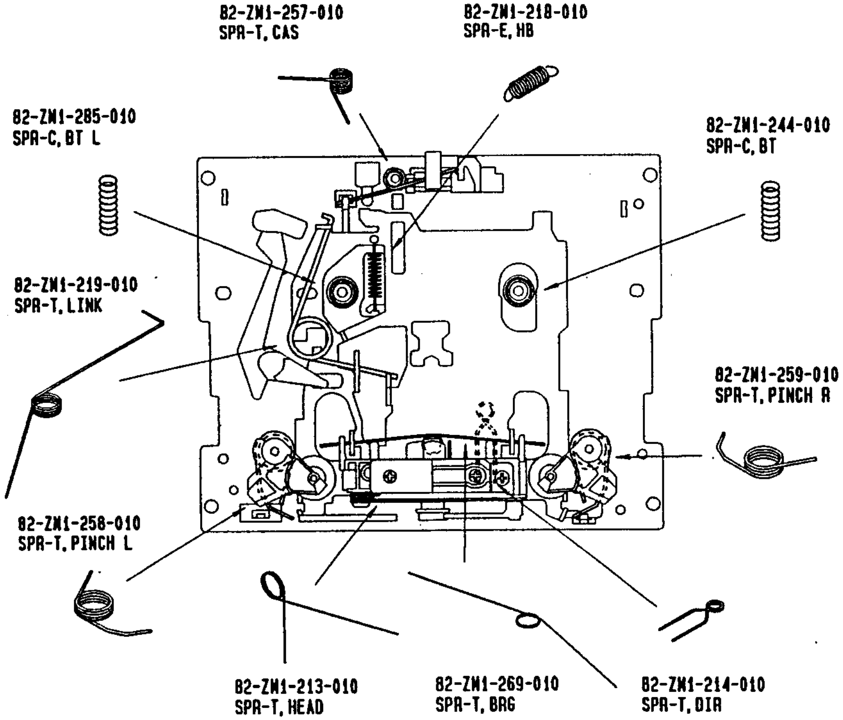


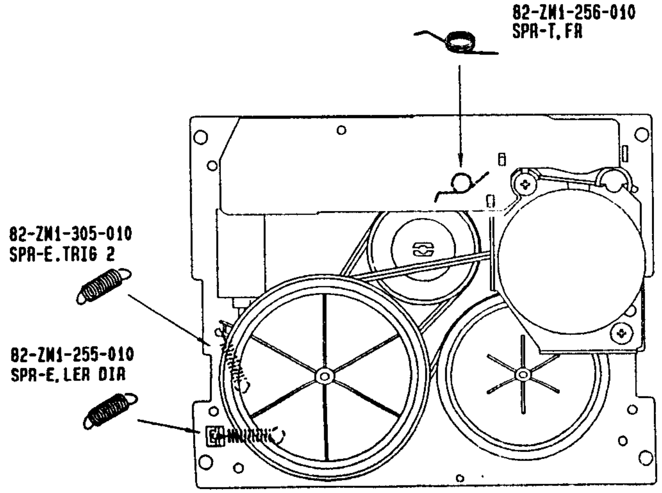
TAPE MECHANISM PARTS LIST 1/1 (FX-WZ9300)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
1	82-ZM1-299-010		CHAS ASSY, R
2	82-ZM1-258-010		SPR-T, PINCH L
3	82-ZM1-248-110		LVR ASSY, PINCH L
4	82-ZM1-295-210		PLATE ASSY, LINK
5	82-ZM1-266-010		LVR, DIR
6	82-ZM1-214-010		SPR-T, DIR
7	82-ZM1-206-210		CHAS, HEAD
8	82-ZM1-308-019		CUSH-G, DIA 3.7-9-3.2
9	82-ZM1-269-010		SPR-T, BRG
10	82-ZM1-219-010		SPR-T, LINK
11	82-ZM1-210-010		GEAR, H T
12	82-ZM1-213-010		SPR-T, HEAD
13	82-ZM1-207-010		GUIDE, TAPE
14	82-ZM1-283-310		S-SCREW, AZIMUTH
15	82-ZM1-314-110		PLATE, HEAD
16	82-ZM1-208-010		HLDR, HEAD
17	82-ZM1-218-010		SPR-E, HB
18	82-ZM1-263-110		LVR, EJECT (DECK 2) (R1)
18	82-ZM1-264-010		LVR, EJECT R (DECK 1) (P1)
19	82-ZM1-222-010		LVR, PLAY
20	82-ZM1-217-110		REEL TABLE
21	82-ZM1-244-110		SPR-C, BT
22	82-ZM1-285-110		SPR-C, BT L
23	82-ZM1-257-010		SPR-T, CAS
24	82-ZM1-241-110		LVR, MC
25	82-ZM1-242-010		LVR, CAS
26	82-ZM1-243-010		LVR, STOP
27	82-ZM1-253-110		LVR ASSY, PINCH R
28	82-ZM1-259-010		SPR-T, PINCH R
29	82-ZM1-240-110		LVR, REC (DECK 2) (R1)
30	82-ZM1-298-010		SPR-P, EARTH
31	82-ZM1-255-110		SPR-E, LVR DIR
32	82-ZM1-221-110		GEAR, CAM
33	82-ZM1-227-110		LVR, TRIG
34	82-ZM1-224-110		LVR, FR
35	82-ZM1-305-010		SPR-E, TRIG 2
36	82-ZM1-312-010		CAPSTAN, N 2.2-41.7
37	82-ZM1-223-010		GEAR, PLAY
38	82-ZM1-256-110		SPR-T, FR
39	82-ZM1-220-110		GEAR, IDLER
40	82-ZM1-316-010		RING MAGNET 3
41	82-ZM1-216-210		GEAR, REEL
42	82-ZM1-313-010		CAPSTAN, N 2-41.5
43	82-ZM1-225-010		GEAR, FR
44	82-ZM1-226-010		GEAR, REW
45	82-ZM1-228-210		SLIP DISK ASSY
46	82-ZM1-328-010		BELT, FR2
47	82-ZM1-238-51K		FLY-WHL R
48	82-ZM1-235-21K		FLY-WHL L
49	82-ZM1-260-010		BELT, MAIN
50	82-ZM1-245-210		HLDR, IC
51	82-ZM1-307-010		HLDR, MOTOR B
52	82-ZM1-247-010		PULLEY, MOTOR
53	82-ZM1-288-010		SH, 1.63-3.2-0.5 SLT
54	80-ZM6-243-010		SH, 1.75-3.6-0.5 SLT
55	87-045-348-010		MOT, SHW 2L 70 (M1)
56	87-046-355-010		HEAD, PH HADKH2529B (PH) (P1)
56	87-046-356-010		HEAD, RPH HADKH5581B (RPH) (R1)
A	82-ZM1-315-010		S-SCREW, GUIDE TAPE
B	80-ZM6-207-010		V+1.6-7
C	82-ZM1-309-010		S-SCRW, MOTOR
D	87-741-073-410		UT2+2.6-6 GLD
E	87-067-932-010		PW, 2.15-6.8-0.5 SLT

SPRING APPLICATION POSITION (FX-WZ9300)


82-ZN1-257-010
SPR-T, CAS
82-ZN1-218-010
SPR-E, HB
82-ZN1-285-010
SPR-C, BT L
82-ZN1-244-010
SPR-C, BT
82-ZN1-219-010
SPR-T, LINK
82-ZN1-259-010
SPR-T, PINCH R
82-ZN1-258-010
SPR-T, PINCH L
82-ZN1-213-010
SPR-T, HEAD
82-ZN1-269-010
SPR-T, BRG
82-ZN1-214-010
SPR-T, DIR


82-ZN1-256-010
SPR-T, FR
82-ZN1-305-010
SPR-E, TRIG 2
82-ZN1-255-010
SPR-E, LER DIR

MODEL NO.

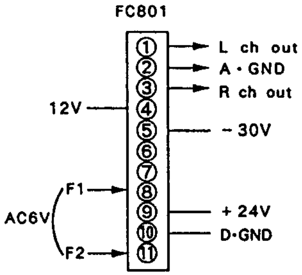
TX – Z9300

CAUTIONS WHEN SERVICING (TX – Z9300)

Model TX – Z9300 does no have a power supply circuit. Power is supplied to it through a 11 – pin flat cable and the signal inputs/outputs are also perfomed through this cable.
When servicing the TX – Z9300 connect it to the MX – Z9300M so that power is supplied to the TX – Z9300.
If the MX – Z9300M is not available, follow the procedure below.

[When servicing the unassembled TX – Z9300]

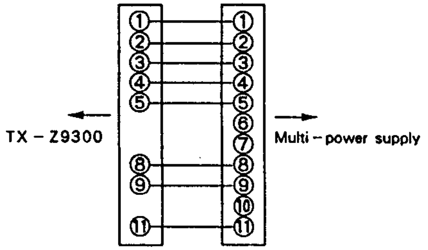
①Supply the following voltages to each terminal from an external power supply.


FC801
① L ch out
② A • GND
③ R ch out
12V ④
⑤ – 30V
⑥
⑦
F1 ⑧
AC6V
⑨ + 24V
⑩ D•GND
F2 ⑪

② Connection diagram when using multi power supply (LPS – 9088).

- Turn the TX – Z9300 on using the SLEEP function since the POWER SW is not supplied.
- Connect the multi – conversion harness for the X5 type (modeified harness for F550) to J1.

Connection diagram of multi – conversion harness


TX – Z9300
Multi – power supply
①②③④⑤⑧⑨⑪
①②③④⑤⑥⑦⑧⑨⑩⑪

▨ : Short bar

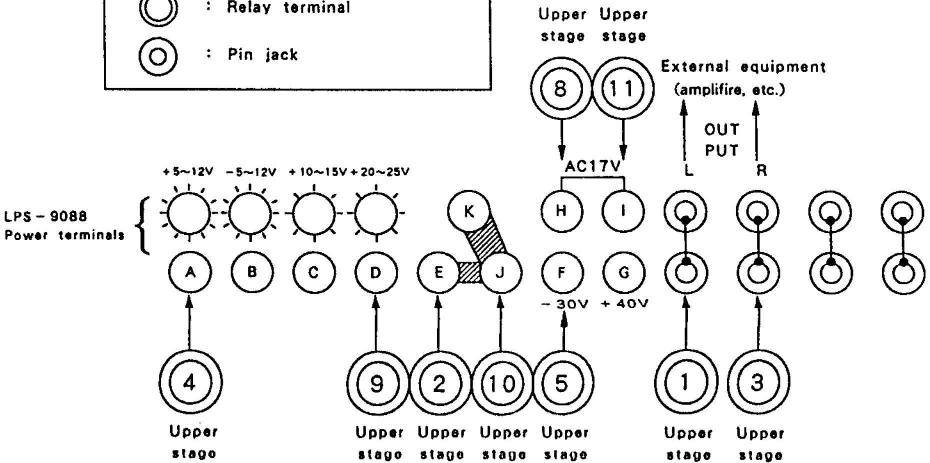
←→ : Jumper cable

●→ : Ground cable of pin plug

○ : Power output terminal

◎ : Relay terminal

⊙ : Pin jack


Upper stage
Upper stage
8
11
External equipment
(amplifire, etc.)
OUT PUT
AC17V
L
R
+5~12V
–5~12V
+10~15V
+20~25V
LPS – 9088
Power terminals
K
H
I
A
B
C
D
E
J
F
G
– 30V
+ 40V
4
9
2
10
5
1
3
Upper stage
Upper stage
Upper stage
Upper stage
Upper stage
Upper stage
Upper stage

ELECTRICAL MAIN PARTS LIST (TX-Z9300)

DESCRIPTIONで判断できない物は "REFERENME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

IC

REF.NO	PART NO.	カンリ NO.	DESCRIPTION
	87-001-942-019		IC,LA1265S(G)
	87-020-446-019		IC,TA7343AP
	87-001-376-019		IC,LC7218
	81-VT1-605-019		IC,UPD75268CW-066

TRANSISTOR

REF.NO	PART NO.	カンリ NO.	DESCRIPTION
	89-503-025-089		C-FET,2SK302 GR
	89-327-143-089		C-TR,2SC2714(0)
	89-502-115-089		C-FET,2SK211GR
	89-327-125-089		C-TR,2SC2712GR
	87-026-230-089		C-TR,DTA114YK
	89-316-235-089		C-TR,2SC1623 L5
	89-333-266-089		C-TR,2SC3326B
	89-502-094-089		C-FET,2SK209Y
	87-026-214-089		TR,DTA114YS
	89-320-011-089		TR,2SC2001K
	89-318-155-089		TR,2SC1815GR
	89-110-485-089		TR,2SA1048GR
	89-324-585-089		TR,2SC2458GR

DIODE

REF.NO	PART NO.	カンリ NO.	DESCRIPTION
	87-026-360-089		C-VARICAP,KV1430
	87-020-125-089		C-DIODE,1SS181
	81-754-634-090		VARI-CAP, KV1260
	87-020-027-089		C-DIODE,1SS184
	87-020-583-089		C-ZENER,02CZ5.1Y
	87-020-585-089		C-ZENER,02CZ6.2Y
	87-020-110-089		DIODE,1SS177
	87-027-449-089		ZENER,HZ15-3L
	87-017-172-089		ZENER,HZS11A1L

MAIN C.B

REF.NO	PART NO.	カンリ NO.	DESCRIPTION
	81-653-648-010		ANT TERM EARTH PAL
C1	87-010-312-089		C-CAP,S 15P-50 CH
C3	87-010-197-089		C-CAP,S 0.01-25 B
C4	87-010-197-089		C-CAP,S 0.01-25 B
C5	87-010-197-089		C-CAP,S 0.01-25 B
C6	87-010-197-089		C-CAP,S 0.01-25 B
C7	87-010-147-089		C-CAP,S 3P-50 CH
C9	87-010-158-089		C-CAP,S 22P-50 SL
C10	87-010-154-089		C-CAP,S 10P-50 CH
C11	87-010-312-089		C-CAP,S 15P-50 CH
C12	87-010-312-089		C-CAP,S 15P-50 CH
C13	87-010-197-089		C-CAP,S 0.01-25 B
C14	87-010-146-089		C-CAP,S 2P-50 CH
C15	87-010-148-089		C-CAP,S 4P-50 CH
C16	87-010-149-089		C-CAP,S 5P-50 CH
C17	87-010-197-089		C-CAP,S 0.01-25 B
C18	87-010-170-089		C-CAP,S 220P-50 SL
C19	87-010-197-089		C-CAP,S 0.01-25 B
C20	87-010-197-089		C-CAP,S 0.01-25 B
C21	87-010-197-089		C-CAP,S 0.01-25 B
C22	87-010-400-089		CAP,E 0.47-50 SME
C23	87-010-197-089		C-CAP,S 0.01-25 B
C24	87-010-149-089		C-CAP,S 5P-50 CH
C26	87-010-312-089		C-CAP,S 15P-50 CH
C27	87-010-197-089		C-CAP,S 0.01-25 B
C30	87-010-401-089		CAP,E 1-50 SME
C31	87-010-197-089		C-CAP,S 0.01-25 B
C32	87-010-197-089		C-CAP,S 0.01-25 B
C33	87-010-405-089		CAP,E 10-50 SME
C34	87-012-157-089		C-CAP,S 330P-50 CH
C35	87-010-197-089		C-CAP,S 0.01-25 B
C36	87-010-401-089		CAP,E 1-50 SME
C37	87-010-404-089		CAP,E 4.7-50 SME
C38	87-010-405-089		CAP,E 10-50 SME
C39	87-010-544-089		CAP,E 0.1-50
C40	87-010-403-089		CAP,E 3.3-50 SME
C41	87-010-404-089		CAP,E 4.7-50 SME
C42	87-010-404-089		CAP,E 4.7-50 SME
C43	87-010-197-089		C-CAP,S 0.01-25 B
C45	87-010-404-089		CAP,E 4.7-50 SME
C46	87-010-197-089		C-CAP,S 0.01-25 B
C47	87-010-197-089		C-CAP,S 0.01-25 B
C48	87-010-197-089		C-CAP,S 0.01-25 B
C49	87-010-197-089		C-CAP,S 0.01-25 B
C50	87-010-197-089		C-CAP,S 0.01-25 B
C51	87-010-197-089		C-CAP,S 0.01-25 B
C52	87-010-197-089		C-CAP,S 0.01-25 B
C53	87-010-196-089		C-CAP,S 0.1-25 F
C54	87-010-197-089		C-CAP,S 0.01-25 B
C55	87-014-049-089		CAP,PP 470P-100 J
C56	87-010-158-089		C-CAP,S 22P-50 SL
C57	87-010-169-089		C-CAP,S 180P-50 SL
C58	87-014-050-089		CAP,PP 510P-100 J
C60	87-010-404-089		CAP,E 4.7-50 SME
C61	87-010-401-089		CAP,E 1-50 SME
C62	87-010-403-089		CAP,E 3.3-50 SME
C63	87-014-057-089		CAP,PP 1000P-100 J
C64	87-010-405-089		CAP,E 10-50 SME
C67	87-010-220-089		C-CAP,S 0.018-25 B
C68	87-010-220-089		C-CAP,S 0.018-25 B
C69	87-010-404-089		CAP,E 4.7-50 SME
C70	87-010-404-089		CAP,E 4.7-50 SME
C73	87-010-404-089		CAP,E 4.7-50 SME
C74	87-010-404-089		CAP,E 4.7-50 SME
C75	87-010-248-089		CAP,E 220-10 SME
C76	87-010-312-089		C-CAP,S 15P-50 CH
C77	87-010-197-089		C-CAP,S 0.01-25 B
C78	87-010-197-089		C-CAP,S 0.01-25 B
C79	87-010-197-089		C-CAP,S 0.01-25 B
C80	87-010-384-089		CAP,E 100-25 SME
C81	87-010-186-089		C-CAP,S 4700P-50 B
C82	87-010-400-089		CAP,E 0.47-50 SME
C83	87-015-762-089		C-CAP,68P SL
C84	87-010-164-089		C-CAP,S 68P-50 SL
C85	87-010-164-089		C-CAP,S 68P-50 SL
C86	87-018-134-089		CAP,TC-U 0.01-16 Y
C87	87-010-404-089		CAP,E 4.7-50 SME
C88	87-010-381-089		CAP,E 330-16 SME
C89	87-018-134-089		CAP,TC-U 0.01-16 Y
C100	87-010-197-089		C-CAP,S 0.01-25 B
C101	87-010-197-089		C-CAP,S 0.01-25 B
C102	87-010-311-089		C-CAP,S 12P-50 CH
C103	87-010-311-089		C-CAP,S 12P-50 CH
C104	87-010-197-089		C-CAP,S 0.01-25 B
C106	87-010-145-089		C-CAP,S 1P-50 CH
C110	87-010-263-089		CAP,E 100-10
C111	87-010-405-089		CAP,E 10-50 SME
C112	87-010-401-089		CAP,E 1-50 SME
C151	87-010-197-089		C-CAP,S 0.01-25 B
C152	87-018-134-089		CAP,TC-U 0.01-16 Y
C153	87-018-134-089		CAP,TC-U 0.01-16 Y
C154	87-018-209-089		CAP,TC-U 0.1-50 F
C155	87-018-134-089		CAP,TC-U 0.01-16 Y
CF1	87-030-105-010		FLTR,BPMB6A
CF2	82-799-621-019		CF MS2-A
CF3	87-008-261-019		FLTR,SFE10.7MA5-A
CF4	87-008-261-019		FLTR,SFE10.7MA5-A
CF5	82-794-670-019		BFU 450C4N
J1	81-631-646-010		ANT TERM 2P PAL
L1	87-006-204-019		COIL,ANT FM 3/4 T
L2	87-006-210-019		COIL,ANT FM 2 3/4T
L3	87-006-200-019		COIL,RF FM 3-1/2T,L5
L4	87-006-201-019		COIL,RF FM3-1/2TS, L5
L5	87-006-201-019		COIL,RF FM3-1/2TS, L5
L6	87-006-205-019		COIL,OSC FM (7K)
L7	87-003-231-089		C-COIL,S1UH
L8	87-008-427-019		COIL,FMIFT (4T)
L9	81-631-611-019		COIL,QUAD (SINGLE)
L11	87-008-452-019		FILTER CFAZ-450
L12	87-006-207-019		COIL,ANT MW (3B)
L13	87-006-208-019		COIL,ANT LW
L14	82-794-687-019		COIL,OSC MW
L15	87-008-461-019		COIL,2 POLE MPX
L16	87-008-461-019		COIL,2 POLE MPX
L17	82-794-688-019		COIL,OSC LW
L18	87-008-421-019		COIL,FILTER ANTI-BIRDIE
L19	87-003-098-089		COIL,2.2UH
L31	87-003-147-089		COIL,22UH
L32	87-005-153-089		COIL,47UH
L33	87-003-098-089		COIL,2.2UH
SFR1	87-024-174-089		SFR,33K DIA6 V
SFR2	87-024-171-089		SFR,4.7K DIA6 V
TC1	87-011-219-089		CAP TRIMMER 10P VCT
TC2	87-011-219-089		CAP TRIMMER 10P VCT
TC3	87-011-219-089		CAP TRIMMER 10P VCT
TC4	87-011-220-089		CAP TRIMMER 20P VCT
TC5	87-011-221-089		TRIMER,30P VCT51
TC6	87-011-221-089		TRIMER,30P VCT51
X1	87-030-163-019		VIB,XTAL 7.2MHZ(NDK)

FRONT C.B

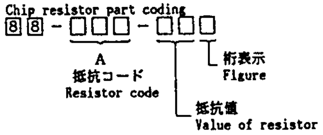
REF.NO	PART NO.	カンリ NO.	DESCRIPTION
C901	87-018-131-089		CAP,TC-U 1000P-50 B
C902	87-010-553-089		CAP,E 47-16
C903	87-010-498-089		CAP,E 10-16 SL
C904	87-010-494-089		CAP ELECT GAS 1/50
C905	87-018-131-089		CAP,TC-U 1000P-50 B
C906	87-010-497-089		CAP,E 4.7-50 SL
C907	87-010-494-089		CAP,E GAS 1/50
C908	87-010-494-089		CAP,E GAS 1/50
C909	87-018-134-089		CAP,TC-U 0.01-16 Y
C910	87-010-252-089		CAP,E (TAPG) 1000-6.3V
C911	87-018-209-089		CAP,TC-U 0.1-50 F
C912	87-018-209-089		CAP,TC-U 0.1-50 F
C913	87-018-209-089		CAP,TC-U 0.1-50 F
C915	87-010-381-089		CAP,E 330-16 SME
C916	87-010-381-089		CAP,E 330-16 SME
CF901	87-008-394-089		CF CST 4.19 MGW
FL901	85-VT1-605-019		FL,9BT-83GK
L901	87-003-102-089		COIL,10UH
L902	87-003-102-089		COIL,10UH
L903	87-003-102-089		COIL,10UH
L904	87-003-102-089		COIL,10UH
PIN901	87-009-605-019		CONN,8P TKC-B M
PIN902	87-009-605-019		CONN,8P TKC-B M
RU901	87-002-669-019		IC,GP1U571X
SW901	87-036-215-089		SW,TACT EVQ21404M
SW902	87-036-215-089		SW,TACT EVQ21404M
SW903	87-036-215-089		SW,TACT EVQ21404M
SW904	87-036-215-089		SW,TACT EVQ21404M
SW905	87-036-215-089		SW,TACT EVQ21404M
SW906	87-036-215-089		SW,TACT EVQ21404M
SW907	87-036-215-089		SW,TACT EVQ21404M
SW908	87-036-215-089		SW,TACT EVQ21404M
SW909	87-036-215-089		SW,TACT EVQ21404M
SW910	87-036-215-089		SW,TACT EVQ21404M
SW911	87-036-215-089		SW,TACT EVQ21404M
SW912	87-036-215-089		SW,TACT EVQ21404M
SW913	87-036-215-089		SW,TACT EVQ21404M
SW914	87-036-215-089		SW,TACT EVQ21404M
SW915	87-036-215-089		SW,TACT EVQ21404M
SW916	87-036-215-089		SW,TACT EVQ21404M
SW917	87-036-215-089		SW,TACT EVQ21404M
SW918	87-036-215-089		SW,TACT EVQ21404M

RELAY C.B

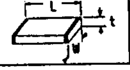
REF.NO	PART NO.	カンリ NO.	DESCRIPTION
C781	87-010-197-089		C-CAP,S 0.01-25 B
C782	87-018-208-089		CAP,TC-U 0.047-50 F
CON1	87-009-600-019		CONN,8P TKC-B F
CON2	87-009-600-019		CONN,8P TKC-B F
FC801	82-VT1-605-019		CORD,FG 11P

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

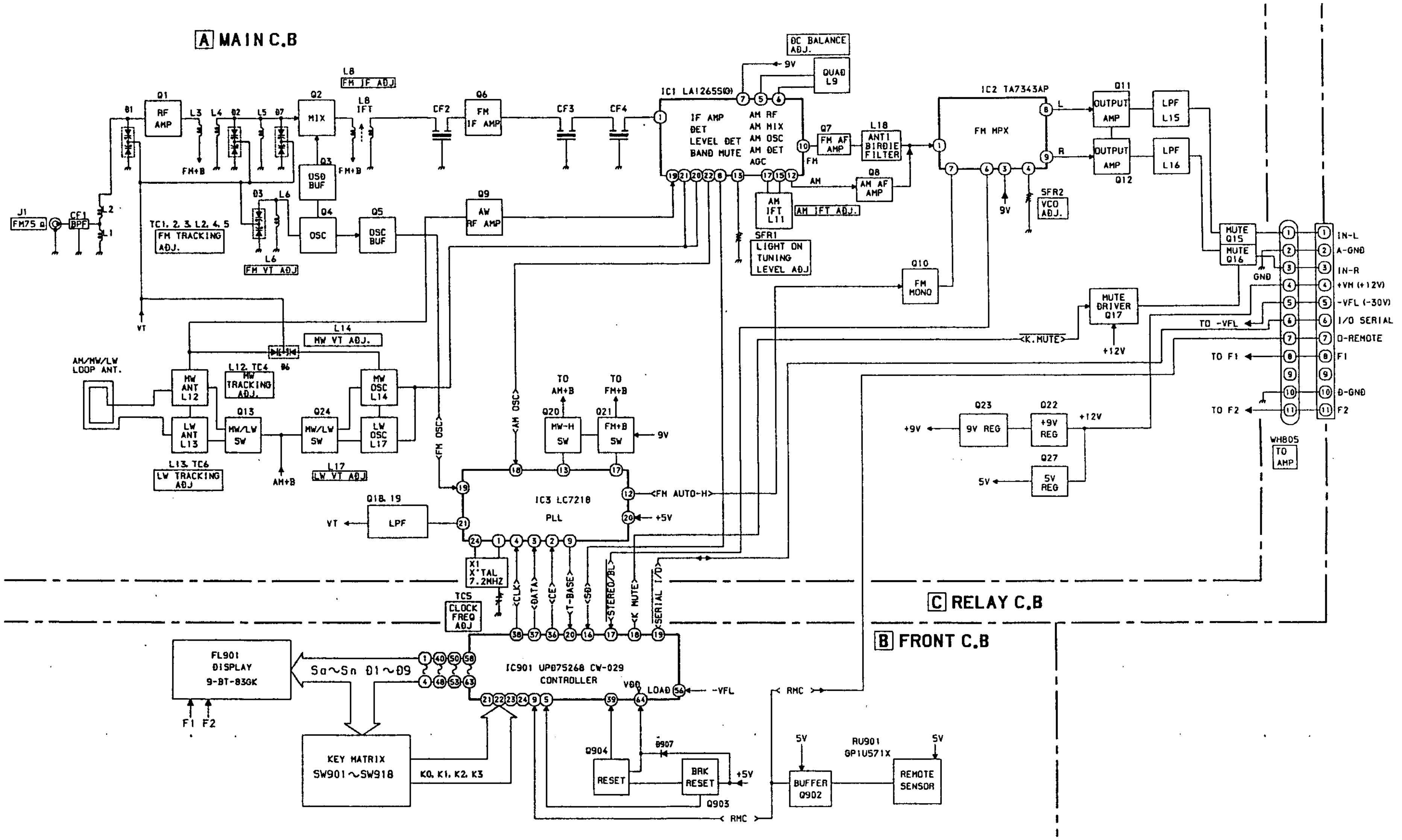
チップ抵抗部品コードの成り立ち
Chip resistor part coding

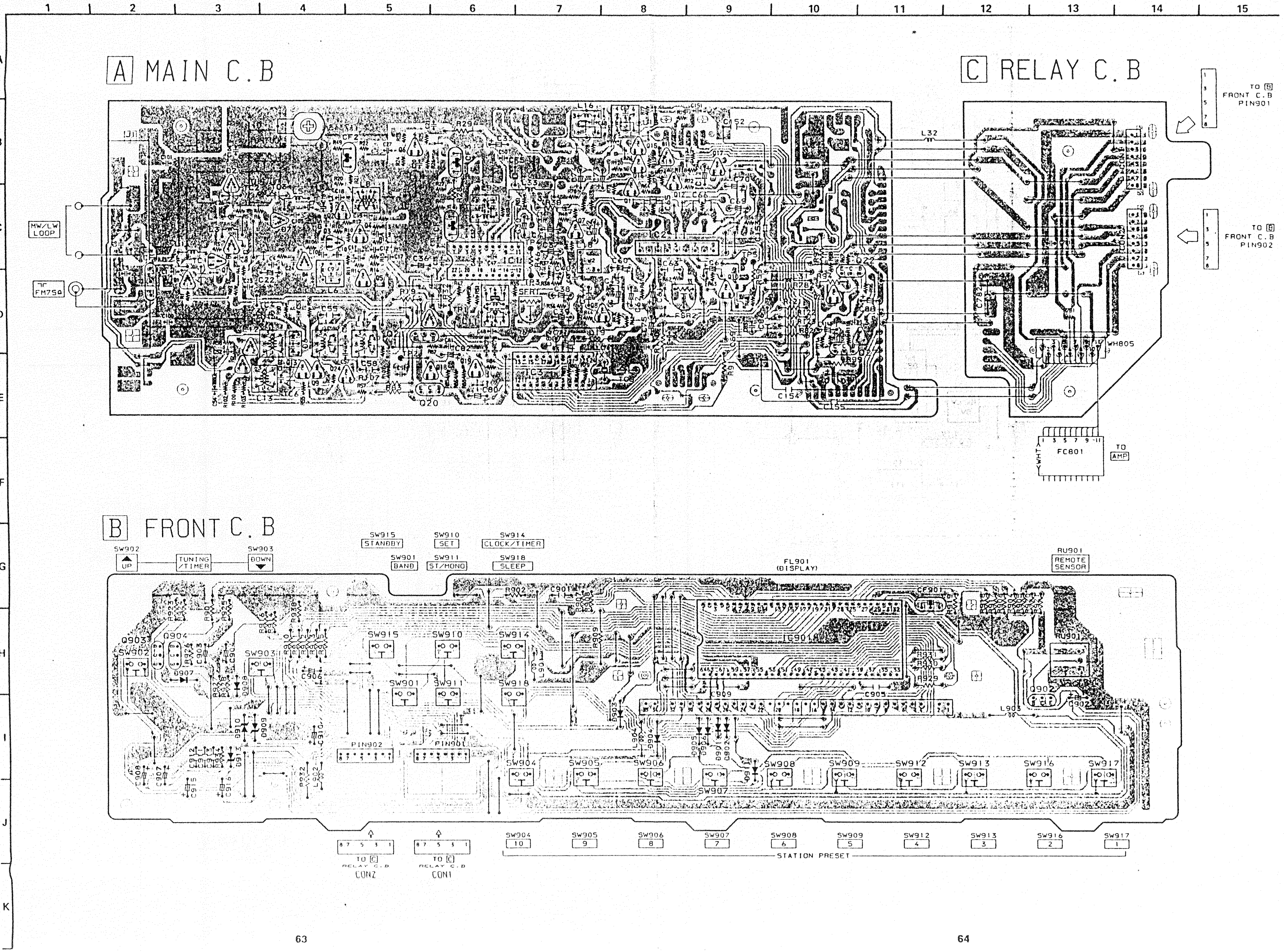


チップ抵抗
Chip resistor

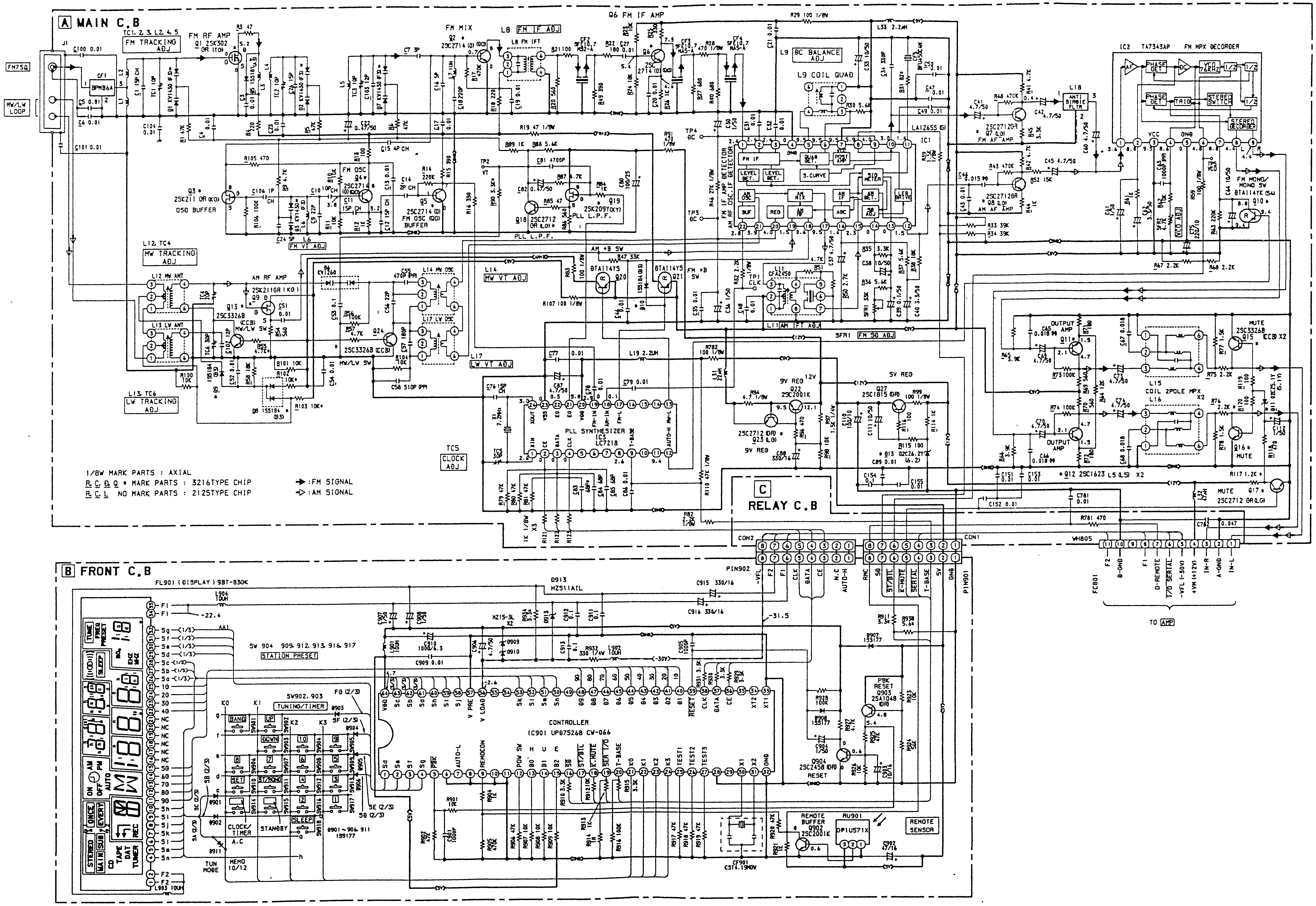
Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Dimensions／寸法(mm) Form/外形	L	W	t	Resistor Code : A 抵抗コード : A
1/32W	1608	±5%	CJ		1.6	0.8	0.35	108
1/10W	2125	±5%	CJ		2	1.25	1.45	118
1/8W	3216	±5%	CJ		3.2	1.6	0.5 ~0.7	128

BLOCK DIAGRAM (TX-Z9300)


A MAIN C.B
B FRONT C.B
C RELAY C.B
J1
FM75 Ω
CF1
BPF
L1
L2
TC1, 2, 3, L2, 4, 5
FM TRACKING ADJ.
D1
Q1
RF AMP
L3
L4
D2
L5
D7
FM+B
Q2
MIX
Q3
USO BUF
Q4
OSC
Q5
OSC BUF
D3
L6
FM VT ADJ
L8
FM IF ADJ
L8
IFT
CF2
Q6
FM IF AMP
CF3
CF4
Q9
AM RF AMP
IC1 LA1265S(D)
IF AMP
DET
LEVEL DET
BAND MUTE
AM RF
AM MIX
AM OSC
AM DET
AGC
DC BALANCE ADJ.
QUAD L9
9V
FM
AM
Q7
FM AF AMP
L18
ANTI BIRDIE FILTER
Q8
AM AF AMP
AM IFT L11
AM IFT ADJ.
SFR1
LIGHT ON TUNING LEVEL ADJ
IC2 TA7343AP
FM MPX
L
R
SFR2
VCO ADJ.
Q11
OUTPUT AMP
Q12
LPF L15
LPF L16
MUTE Q15
MUTE Q16
GND
Q10
FM MONO
MUTE DRIVER Q17
+12V
<K.MUTE>
TO -VFL
TO F1
TO F2
IN-L
A-GND
IN-R
+VM (+12V)
-VFL (-30V)
I/O SERIAL
D-REMOTE
F1
D-GND
F2
WH805
TO AMP
Q23
9V REG
+9V
Q22
+9V REG
+12V
Q27
5V REG
5V
VT
L14
MW VT ADJ.
D6
AM/MW/LW LOOP ANT.
MW ANT L12
L12, TC4
MW TRACKING ADJ.
MW OSC L14
LW ANT L13
L13, TC6
LW TRACKING ADJ
Q13
MW/LW SW
Q24
MW/LW SW
LW OSC L17
L17
LW VT ADJ
AM+B
<FM OSC>
<AM OSC>
TO AM+B
TO FM+B
Q20
MW-H SW
Q21
FM+B SW
IC3 LC7218
PLL
<FM AUTO-H>
+5V
Q18, 19
LPF
X1
X'TAL 7.2MHZ
TC5
CLOCK FREQ ADJ
<CLK>
<DATA>
<CE>
<T-BASE>
<SD>
<STEREO/BL>
<K MUTE>
<SERIAL I/O>
IC901 UPD75268 CW-029
CONTROLLER
VDD
LOAD
-VFL
FL901
DISPLAY
9-BT-83GK
Sa~Sn D1~D9
F1 F2
KEY MATRIX
SW901~SW918
K0, K1, K2, K3
Q904
RESET
D907
BRK RESET
Q903
+5V
< RMC >
5V
BUFFER Q902
RU901
GP1U571X
REMOTE SENSOR

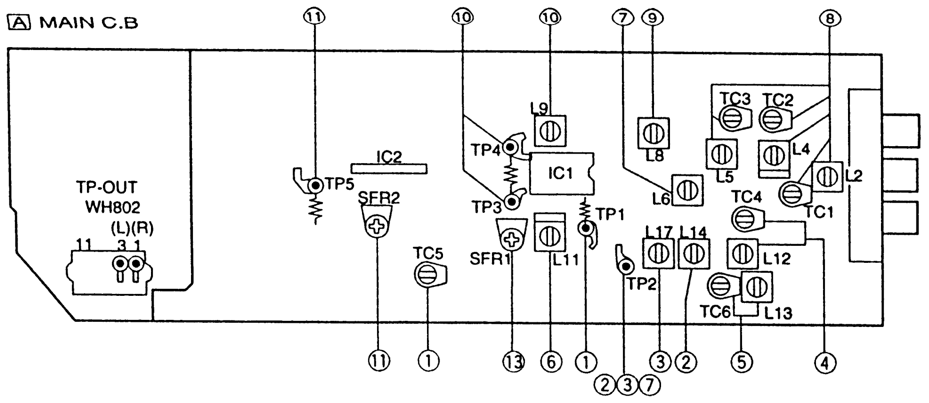

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
A
B
C
D
E
F
G
H
I
J
K
A MAIN C.B
C RELAY C.B
TO B FRONT C.B PIN901
TO B FRONT C.B PIN902
MW/LW LOOP
FM75Ω
L32
WH805
FC801
TO AMP
B FRONT C.B
SW915 STANDBY
SW910 SET
SW914 CLOCK/TIMER
SW902 UP
TUNING/TIMER
SW903 DOWN
SW901 BAND
SW911 ST/MONO
SW918 SLEEP
FL901 (DISPLAY)
RU901 REMOTE SENSOR
PIN902
PIN901
TO C RELAY C.B CON2
TO C RELAY C.B CON1
SW904 10
SW905 9
SW906 8
SW907 7
SW908 6
SW909 5
SW912 4
SW913 3
SW916 2
SW917 1
STATION PRESET

SCHEMATIC DIAGRAM (TX-Z9300)


A MAIN C.B
B FRONT C.B
C RELAY C.B
FM75Ω
MW/LW LOOP
TC1, 2, 3 L2, 4, 5 FM TRACKING ADJ
FM RF AMP
FM MIX
L8 FM IF ADJ
Q6 FM IF AMP
L9 BC BALANCE ADJ
L9 COIL QUAD
IC1 LA1265S
IC2 TA7343AP FM MPX DECORDER
FM OSC
OSC BUFFER
PLL L.P.F.
L12, TC4 MW TRACKING ADJ
AM RF AMP
L14 MW VT ADJ
L17 LW VT ADJ
L13, TC6 LW TRACKING ADJ
L11 AM IFT ADJ
SFR1 FM SD ADJ
PLL SYNTHESIZER IC3 LC7218
TC5 CLOCK ADJ
9V REG
5V REG
OUTPUT AMP
MUTE
L15 COIL 2POLE MPX
L16
FM AF AMP
AM AF AMP
FM MONO/MONO SW
VCO ADJ
1/8W MARK PARTS : AXIAL
R, C, D, Q ∗ MARK PARTS : 3216TYPE CHIP
R, C, L NO MARK PARTS : 2125TYPE CHIP
→ : FM SIGNAL
▷ : AM SIGNAL
CON2
CON1
WH805
P1N902
P1N901
FC801
TO AMP
FL901 (DISPLAY) 9BT-830K
SW 904, 909, 912, 913, 916, 917 STATION PRESET
SW902, 903 TUNING/TIMER
CONTROLLER IC901 UPD75268 CW-066
PBK RESET
RESET
REMOTE BUFFER Q902 2SC2001K
RU901 GP1U571X
REMOTE SENSOR
CF901 CST4.19MGW
BAND
UP
DOWN
SET
ST/MONO
SLEEP
CLOCK/TIMER
STANDBY
TUN MODE
MEMO 10/12
D901 ~ 904, 911 1SS177

ADJUSTMENT (TX-Z9300)

Ⓐ MAIN C.B


⑪
⑩
⑩
⑦ ⑨
⑧
TP-OUT
WH802
(L)(R)
11 3 1
IC2
TP5
SFR2
TC5
TP4
TP3
SFR1
IC1
L9
L11
TP1
L8
L6
L5
TC3 TC2
L4
L2
TC4
TC1
L17 L14
L12
TP2
TC6
L13
⑪ ① ⑬ ⑥ ① ③② ⑤ ④
②③⑦

1. Clock Frequency Adjustment
   Settings: • Test point: TP1
   • Adjustment location: TC5
   Method: Set to MW 1611kHz and adjust so that the test point becomes 2061kHz ± 0.01kHz.

2. MW VT Adjustment
   Settings: • Test point: TP 2 (VT)
   • Adjustment location: L14
   Method: Set to MW 522kHz and adjust L14 so that the test point becomes 1.0V ± 0.05V.

3. LW VT Adjustment
   Settings: • Test point: TP 2 (VT)
   • Adjustment location: L17
   Method: Set to LW 144kHz and adjust L17 so that the test point becomes 1.2V ± 0.05V.

4. MW Tracking Adjustment
   Settings: • Test point: TP-OUT (WH802)
   L12 . . . . 603kHz
   TC4 . . . . 1404kHz

5. LW Tracking Adjustment
   Settings: • Test point: TP-OUT (WH802)
   L13 . . . . 144kHz
   TC6 . . . . 290kHz

6. MW IF Adjustment
   Settings: • Test point: TP-OUT (WH802)
   L11 . . . . 450 kHz

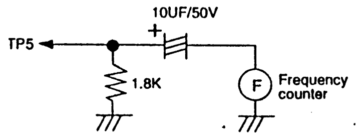
7. FM VT Adjustment
   Settings: • Test point: TP2 (VT)
   • Adjustment location: L6
   Method: Set to FM 108.0MHz and adjust L6 so that the test point becomes 9.0V ± 0.05V.

8. FM Tracking Adjustment
   Settings: • Test point: TP-OUT (WH802)
   TC1,TC2,TC3 . . . . 108.0MHz
   L2,L4,L4 . . . . 87.5MHz

9. FM IF Adjustment
   Settings: • Test point: TP-OUT (WH802)
   L8 . . . . 98.0MHz

10. DC Balance Adjustment
    Settings: • Test point: TP3,4 TP-OUT (WH802)(Distortion)
    • Adjustment location: L9
    Method: Set to FM 98.0MHz and adjust L9 so that the test point TP3 and TP4 output becomes 0V ± 0.02V. Next, check so that the distortion becomes less than 0.6%.

11. MPX VCO Adjustment
    Settings: • Test point: TP5
    • MODE SW: STEREO
    • Adjustment location: SFR2
    Method: Connect a capacitor and resistor as below. Set to FM 98.0MHz non modulation and adjust so that the frequency at test point becomes 38kHz ± 0.05kHz.


10UF/50V
+
TP5
1.8K
F
Frequency counter

12. FM Separation Check
    Settings: • Test point: TP-OUT (WH802)
    Method: Set to FM 98.0MHz and check the separation at TP-OUT becomes more than 27dB.

13. Light on tuning Adjustment
    Settings: • Adjustment location: SFR1
    • Input level: 18dB
    Method: Set to FM 98.0MHz and adjust TUNING LED to light on by SFR1. After that, LED goes out by 2dB down.

PRACTICAL SERVICE FIGURE (TX-Z9300)

<FM SECTION>

Usable Sensitivity:	8dB±4dB(87.5MHz)
(THD 3%)	6dB±4dB(98.0/108.0MHz)
S/N 46dB Quieting sensitivity:	
	Less than 38dB (87.5/98.0/108.0MHz)
Signal to noise ratio:	More than 60dB(98.0MHz)
Distortion:	Less than 1.5%(98.0MHz)
Stereo separation:	More than 27dB
Intermediate frequency:	10.7MHz

<MW SECTION>

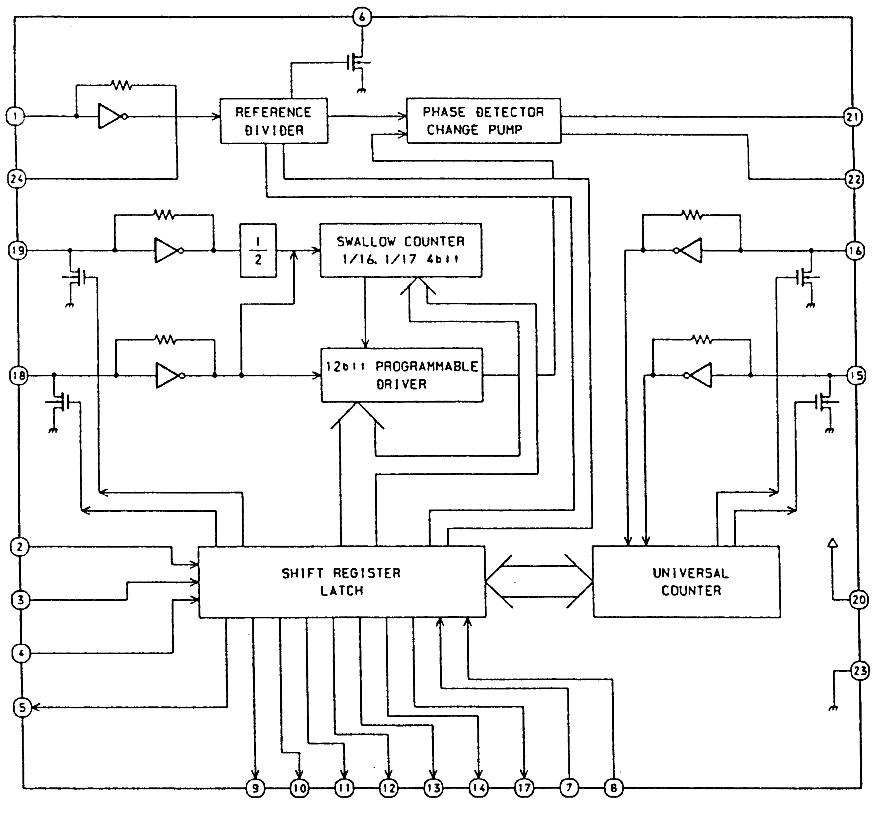
Sensitivity:	56dB±4dB(603kHz)
(S/N 20dB)	52dB±4dB(999/1404kHz)
	53dB±5dB(1404kHz)
Distortion:	Less than 1.6%(999kHz)
Intermediate frequency:	450kHz

<LW SECTION>

Sensitivity:	63dB±5dB(153kHz)
(S/N 20dB)	60dB±5dB(198/290kHz)
	53dB±5dB(1404kHz)
Distortion:	Less than 1.2%(198kHz)
Intermediate frequency:	450kHz

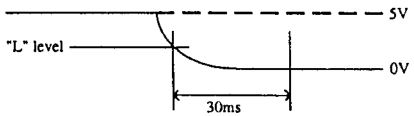
IC BLOCK DIAGRAM (TX-Z9300)

IC, LC7218

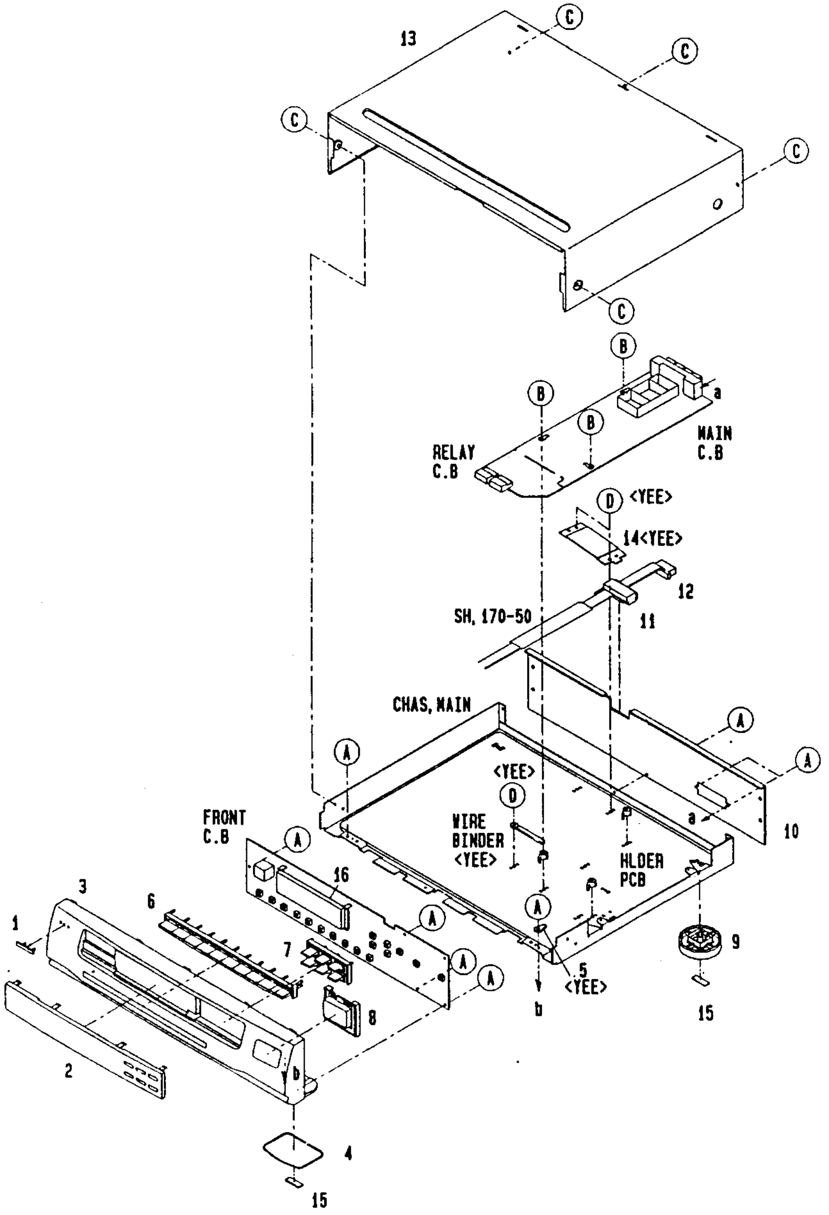

6
1
24
21
22
19
16
18
15
2
3
4
5
20
23
REFERENCE DIVIDER
PHASE DETECTOR CHANGE PUMP
1/2
SWALLOW COUNTER 1/16, 1/17 4bit
12bit PROGRAMMABLE DRIVER
SHIFT REGISTER LATCH
UNIVERSAL COUNTER
9 10 11 12 13 14 17 7 8

IC DESCRIPTION (TX-Z9300)

IC, UPD75268CW-029

Pin No.	Pin Name	I/O	Description
1~4	Sd~Sg	O	FL display segment signal outputs. Key scan signal outputs. Active "H".
5	$\overline{\text{PBK}}$	I	Power failure detection input. When "L" level continues for 30 ms or more. A power failure is detected. (The unit enters the backup mode.) 
6	-	-	Not used. (Connected to GND)
7	AUTO-L	O	When an FM broadcast is received, this pin outputs a signal depending on the AUTO condition selected by the MODE key. Active "L" when the AUTE indicator lights. ·Even if the AUTO indicator changes when the frequency is being set during timer programming, the output follows the condition currently received.
8	-	-	Not used. (Connected to GND)
9	REMOKON	I	Serial data input for remote control. Active "H". (The rise is detected)
10~11	-	-	Not used. (Connected to GND)
12	POW SW	I/O	Power control input port. The power is turned on and off a alternately each time the power switch of the amplifier is pressed.
13	B0	I	These input pins select the frequency range etc. With the 3 bits depending on the destination of units.
14	B2	I	These input pins select the frequency range etc. With the 3 bits depending on the destination of units.
15	B1	I	These input pins select the frequency range etc. With the 3 bits depending on the destination of units.
16	$\overline{\text{SD}}$	I	Input to stop auto scanning. Active "L". · The input is not accepted during power off. · The input cause "TUNE" to light. · Search for SD signals every 5 ms during auto scanning. When 4 "L" pulses are counted, scanning will stop. · SD is not detected during manual tuning.
17	$\overline{\text{STEREO}}$	I	Input which causes the STEREO indicator to light. Active "L". · This input is not accepted during power off.
18	$\overline{\text{K.MUTE}}$	O	Output a muting signal when a key is operated.
19	$\overline{\text{SER I/O}}$	I/O	8-bit serial data input/output.
20	T-BASE	I	Receives 8Hz pulses from the PLL (LC7218) as a clock signal timing.
21~24	K0~K3	I	Key matrix inputs. (K2 and K3 are not used and connected to GND)
25~27	TEST1~TEST3	I	Test mode setting inputs.
28	AC CLK	I	Receives the commercial power frequency (the AC level is 5V) as a reference signal for the clock. Not used. (Connected to ground)
29	-	-	Not used. (Connected to ground)
30~31	X1~X2	-	A ceramic oscillator which generates the main system clock signal (4.19MHz) is connected.
32	GND	-	Connected to GND.
33~34	XT1~XT2	-	Not used. (Connected to ground)
34	XT2	-	Not used. (Not connected)
35	POW ON	-	Not used. (Not connected) Goes "H" during power on and "L" during power off.
36	CE	O	Output port which transmit serial data to the PLL (LC7218). Active "H".
37	DATA	O	Output port which transmit serial data to the PLL (LC7218). Active "H".
38	CLK	O	Output port which transmit serial data to the PLL (LC7218). Active "H".
39	$\overline{\text{RESET}}$	I	System reset input. When the TUNER MODE and BAND switches are pressed and held for 1 second, the clock and preset stations are reset.
40~48	D1~D9	O	FL display digit outputs.
49	-	-	Not used. (Not connected)
50~53	Sn~Sk	O	FL display segment outputs.
54~55	-	-	Not used. (Not connected)
56	V LOAD	I	Supplies power (-25V) to the output buffer of the FL display driver.
57	V PRE	I	Connected to GND.
58~60	Sj~Sh	O	FL display segment outputs.
61~63	Sa~Sc	O	FL display segment outputs.
64	VDD	-	+5V power terminal.

MECHANICAL EXPLODED VIEW 1/1 (TX-Z9300)


13
C
B
a
RELAY C.B
MAIN C.B
D <YEE>
14<YEE>
12
SH, 170-50
11
CHAS, MAIN
A
<YEE>
D
WIRE BINDER <YEE>
HLDER PCB
FRONT C.B
16
3
6
1
7
8
5 <YEE>
b
9
15
10
2
4

MECHANICAL PARTS LIST 1/1 (TX-Z9300)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
1	82-NE8-032-019		BADGE AIWA 27.5
2	85-VT1-006-019		WINDOW, DISPLAY
3	85-VT1-001-019		CAB, FR
4	84-VM5-013-010		RING, FOOT
5	87-450-414-019		LB-4 (NICKEL)
6	85-VT1-003-019		KEY, 10
7	85-VT1-004-019		KEY, BAND
8	85-VT1-005-019		KEY, UP/DOWN
9	81-VX1-012-019		FOOT, REAR
10	85-VT1-011-019		PANEL, REAR YEEBN
11	89-VT5-202-010		BUSHING CORD
12	82-VT1-605-010		CORD, FG11P
13	82-VT1-009-119		CAB, STEEL
14	81-VX1-207-110		HLDRWIRE
15	82-VW2-211-019		FELT, 20-7.5-2
16	85-VT1-201-019		GUIDE, FL
A	87-067-660-019		BVT2+3-8W/O SLOT BLK
B	87-067-632-019		BVT2+3-15 W CONVEX
C	87-067-641-019		UTT2+3-8 W/O SLOT BLK
D	87-067-584-010		BVT2+3-6 W/O SLOT

MODEL NO.

GE-Z9300

CAUTIONS WHEN SERVICING (GE-Z9300)

Model GE-Z9300 does not have a power supply circuit and a controlcircuit.
When servicing the GE-Z9300 connect it to the MX-Z9300M.

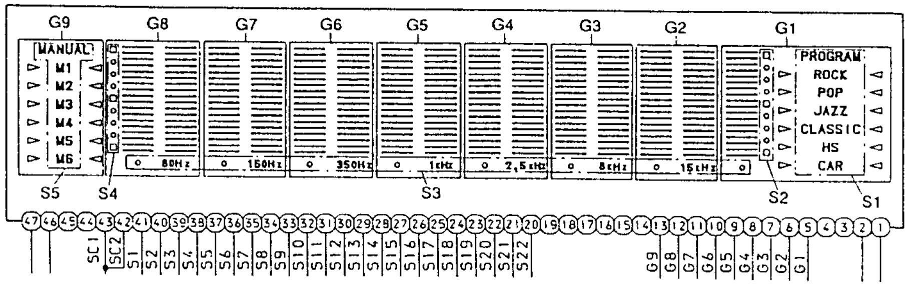
ELECTRICAL MAIN PARTS LIST (GE-Z9300)

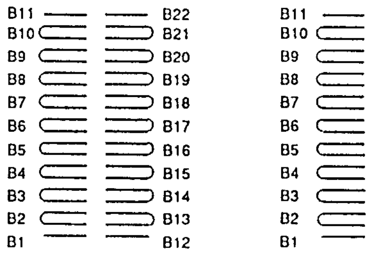
DESCRIPTIONで判断できない物は "REFERENME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
IC			
	82-VU1-631-010		IC,LC65204A-4B13
	87-002-950-019		IC,BA3826S
	87-020-881-089		IC,NJM78L05A
TRANSISTOR			
	89-320-011-089		TR,2SC2001K
	87-026-269-089		TR,DTA114ES
	87-026-245-089		TR,DTC114ES
	89-333-284-089		TR,2SC3328 Y
	89-110-155-089		TR,2SA1015GR
DIODE			
	87-020-123-089		DIODE,DS446-AT (TA)
	87-027-323-089		ZENER,HZ22-2L
	87-027-347-080		ZENER,HZ18LT2
	87-020-691-089		DIODE,1SS132 T-72
MAIN C.B			
C20	87-010-405-089		CAP,E 10-50 SME
C21	87-018-209-089		CAP,TC-U 0.1-50 F
C22	87-010-075-089		CAP,E 10-16 5L
C23	87-010-408-089		CAP,E 47-50 SME
C24	87-014-061-089		CAP,PP 1500P-100 J
C25	87-015-699-089		CAP,E 10-50 7L
C26	87-018-134-089		CAP,TC-U 0.01-16 Y
C27	87-010-404-089		CAP,E 4.7-50 SME
C28	87-010-405-089		CAP,E 10-50 SME
C30	87-010-071-089		CAP,E 1-50 5L
C31	87-018-131-089		CAP,TC-U 1000P-50 B
C32	87-018-131-089		CAP,TC-U 1000P-50 B
C33	87-018-134-089		CAP,TC-U 0.01-16 Y
C34	87-018-134-089		CAP,TC-U 0.01-16 Y
C35	87-018-134-089		CAP,TC-U 0.01-16 Y
C36	87-018-134-089		CAP,TC-U 0.01-16 Y
C37	87-018-127-089		CAP,TC-U 470P-50 B
C38	87-018-127-089		CAP,TC-U 470P-50 B
C44	87-010-101-089		CAP,E 220-16 SME
C100	87-018-209-089		CAP,TC-U 0.1-50 F
C101	87-018-209-089		CAP,TC-U 0.1-50 F
C102	87-010-078-080		CAP,E 47-6.3 5L
C103	87-010-078-080		CAP,E 47-6.3 5L
FL1	82-VU1-630-019		FL,BJ126GK
FL2	82-VU1-630-019		FL,BJ126GK
L1	87-003-136-089		COIL,100UH
L3	87-003-147-089		COIL,22UH
R82	87-022-482-059		RES,NF3.3-1/4WJ
R83	87-022-482-059		RES,NF3.3-1/4WJ
S1	87-036-215-089		SW,TACT EVQ21404M
S2	87-036-215-089		SW,TACT EVQ21404M
S4	87-036-215-089		SW,TACT EVQ21404M
S5	87-036-215-089		SW,TACT EVQ21404M
S6	87-036-215-089		SW,TACT EVQ21404M
S7	87-036-215-089		SW,TACT EVQ21404M
S8	87-036-215-089		SW,TACT EVQ21404M
S9	87-036-215-089		SW,TACT EVQ21404M
S10	87-036-215-089		SW,TACT EVQ21404M
S11	87-036-215-089		SW,TACT EVQ21404M
S12	87-036-215-089		SW,TACT EVQ21404M
S13	87-036-215-089		SW,TACT EVQ21404M
S14	87-036-215-089		SW,TACT EVQ21404M
S15	87-036-215-089		SW,TACT EVQ21404M
S16	87-036-215-089		SW,TACT EVQ21404M
S17	87-036-215-089		SW,TACT EVQ21404M
S18	87-036-215-089		SW,TACT EVQ21404M
S19	87-036-215-089		SW,TACT EVQ21404M
S20	87-036-215-089		SW,TACT EVQ21404M
T1	82-VU1-615-119		COIL,FL
W1	82-VU1-632-019		CORD,9P FG 55CM
X1	89-MX1-704-089		CERA LOCK(MU)3.9MHZ
X2	89-MX1-704-089		CERA LOCK(MU)3.9MHZ

FL (BJ126GK) (GE-Z9300)

GRID ASSIGNMENT


G9
G8
G7
G6
G5
G4
G3
G2
G1
MANUAL
M1
M2
M3
M4
M5
M6
PROGRAM
ROCK
POP
JAZZ
CLASSIC
HS
CAR
80Hz
150Hz
350Hz
1kHz
2.5kHz
8kHz
15kHz
S5
S4
S3
S2
S1
47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
SC1 SC2 S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22
G9 G8 G7 G6 G5 G4 G3 G2 G1

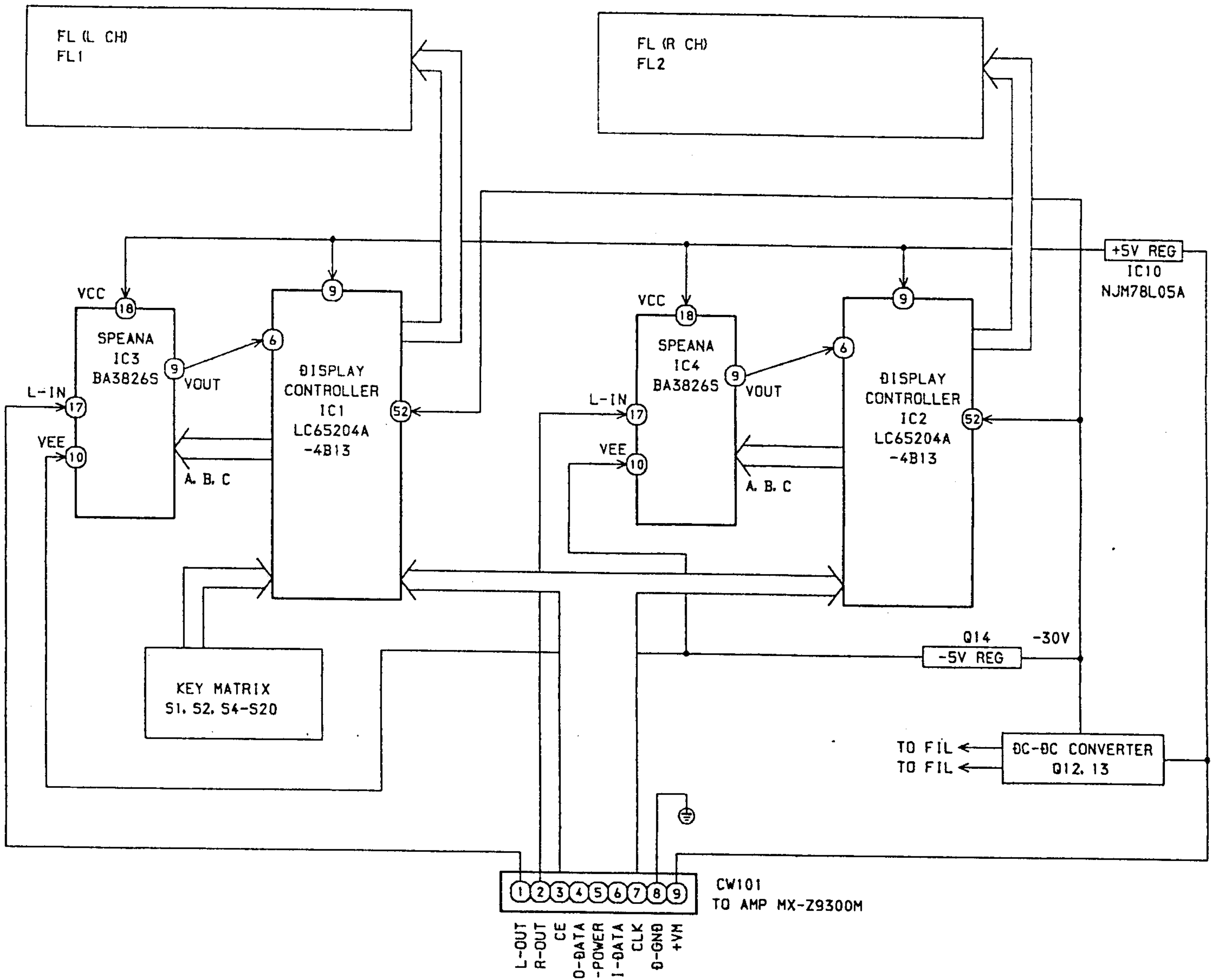

B11
B10
B9
B8
B7
B6
B5
B4
B3
B2
B1
B22
B21
B20
B19
B18
B17
B16
B15
B14
B13
B12

(G8~G2) (G1)

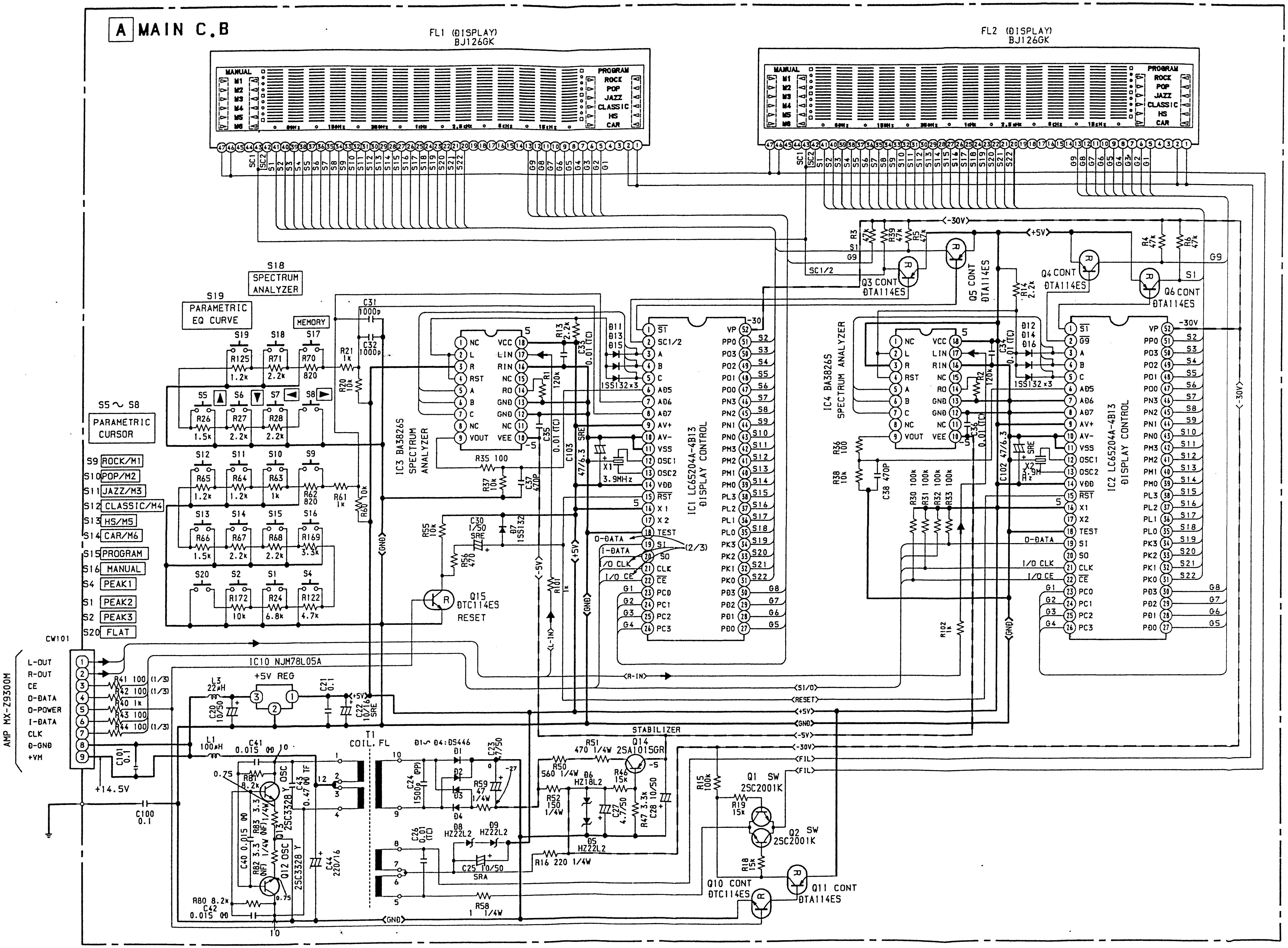
ANODO CONNECTION

	G9	G8	G7	G6	G5	G4	G3	G2	G1
P1	▷ (M6) ◁	B1	B1	B1	B1	B1	B1	B1	B1
P2	▷ (M5) ◁	B2	B2	B2	B2	B2	B2	B2	B2
P3	▷ (M4) ◁	B3	B3	B3	B3	B3	B3	B3	B3
P4	▷ (M3) ◁	B4	B4	B4	B4	B4	B4	B4	B4
P5	▷ (M2) ◁	B5	B5	B5	B5	B5	B5	B5	B5
P6	▷ (M1) ◁	B6	B6	B6	B6	B6	B6	B6	B6
P7	S5	B7	B7	B7	B7	B7	B7	B7	B7
P8	—	B8	B8	B8	B8	B8	B8	B8	B8
P9	—	B9	B9	B9	B9	B9	B9	B9	B9
P10	—	B10	B10	B10	B10	B10	B10	B10	B10
P11	—	B11	B11	B11	B11	B11	B11	B11	B11
P12	—	B12	B12	B12	B12	B12	B12	B12	▷ (CAR) ◁
P13	—	B13	B13	B13	B13	B13	B13	B13	▷ (HS) ◁
P14	—	B14	B14	B14	B14	B14	B14	B14	▷(CLASSIC)◁
P15	—	B15	B15	B15	B15	B15	B15	B15	▷ (JAZZ) ◁
P16	—	B16	B16	B16	B16	B16	B16	B16	▷ (POP) ◁
P17	—	B17	B17	B17	B17	B17	B17	B17	▷(ROCK)◁
P18	—	B18	B18	B18	B18	B18	B18	B18	S1
P19	—	B19	B19	B19	B19	B19	B19	B19	—
P20	—	B20	B20	B20	B20	B20	B20	B20	—
P21	—	B21	B21	B21	B21	B21	B21	B21	—
P22	—	B22	B22	B22	B22	B22	B22	B22	—
P23	—	S4	—	—	—	—	—	—	S2
P24	—	S3	S3	S3	S3	S3	S3	S3	—

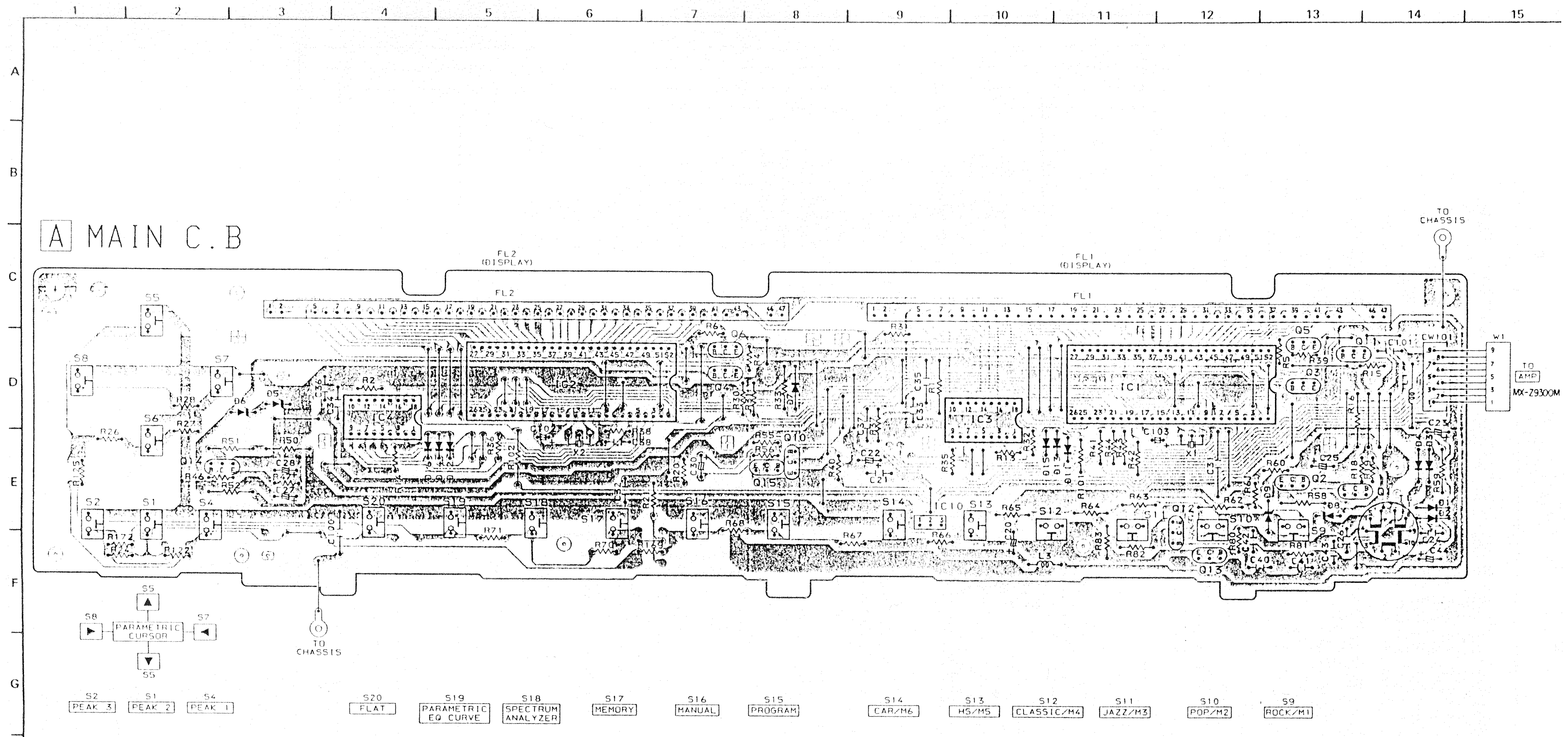
A MAIN C.B


FL (L CH)
FL1
FL (R CH)
FL2
+5V REG
IC10
NJM78L05A
VCC
18
SPEANA
IC3
BA3826S
9
VOUT
L-IN
17
VEE
10
A. B. C
9
6
DISPLAY
CONTROLLER
IC1
LC65204A
-4B13
52
VCC
18
SPEANA
IC4
BA3826S
9
VOUT
L-IN
17
VEE
10
A. B. C
9
6
DISPLAY
CONTROLLER
IC2
LC65204A
-4B13
52
KEY MATRIX
S1, S2, S4-S20
Q14
-30V
-5V REG
TO FIL
TO FIL
DC-DC CONVERTER
Q12, 13
1 2 3 4 5 6 7 8 9
CW101
TO AMP MX-Z9300M
L-OUT
R-OUT
CE
O-DATA
O-POWER
I-DATA
CLK
D-GND
+VM

SCHEMATIC DIAGRAM (GE-Z9300)

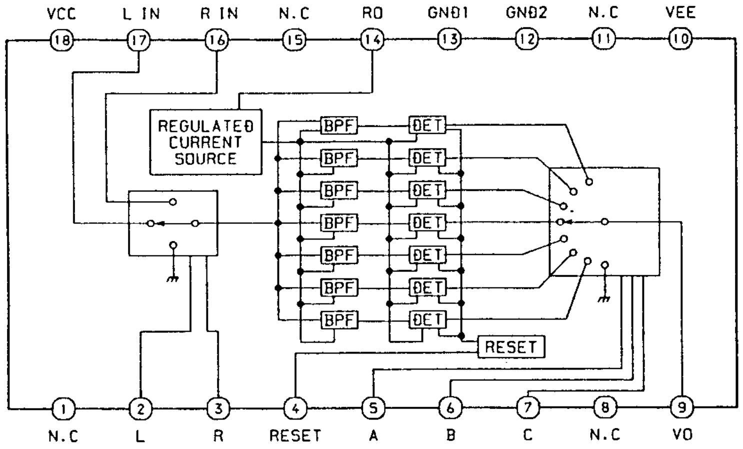


A MAIN C.B
FL1 (DISPLAY) BJ126GK
FL2 (DISPLAY) BJ126GK
MANUAL
M1
M2
M3
M4
M5
M6
PROGRAM
ROCK
POP
JAZZ
CLASSIC
HS
CAR
S18 SPECTRUM ANALYZER
S19 PARAMETRIC EQ CURVE
MEMORY
S5 ~ S8 PARAMETRIC CURSOR
S9 ROCK/M1
S10 POP/M2
S11 JAZZ/M3
S12 CLASSIC/M4
S13 HS/M5
S14 CAR/M6
S15 PROGRAM
S16 MANUAL
S4 PEAK1
S1 PEAK2
S2 PEAK3
S20 FLAT
IC3 BA3826S SPECTRUM ANALYZER
IC1 LC65204A-4B13 DISPLAY CONTROL
IC4 BA3826S SPECTRUM ANALYZER
IC2 LC65204A-4B13 DISPLAY CONTROL
Q3 CONT DTA114ES
Q5 CONT DTA114ES
Q4 CONT DTA114ES
Q6 CONT DTA114ES
Q15 DTC114ES RESET
1SS132×3
X1 3.9MHz
CW101
AMP MX-Z9300M
L-OUT
R-OUT
CE
O-DATA
O-POWER
I-DATA
CLK
D-GND
+VM
+14.5V
IC10 NJM78L05A +5V REG
T1 COIL, FL
D1~D4: DS446
STABILIZER
Q14 2SA1015GR
Q12 OSC 2SC3328 Y
Q13 OSC 2SC3328 Y
Q1 SW 2SC2001K
Q2 SW 2SC2001K
Q10 CONT DTC114ES
Q11 CONT DTA114ES
D5 HZ22L2
D6 HZ18L2
D8 HZ22L2
D9 HZ22L2
(-30V)
(+5V)
(-5V)
(GND)
(S1/O)
(RESET)
(FIL)
(R-IN)
(L-IN)


A MAIN C.B
FL2 (DISPLAY)
FL1 (DISPLAY)
TO CHASSIS
TO AMP
MX-Z9300M
W1
CW101
IC1
IC2
IC3
IC4
IC10
X1
X2
Q1
Q2
Q3
Q4
Q5
Q6
Q10
Q12
Q13
Q15
S5
S6
S7
S8
PARAMETRIC CURSOR
S2 PEAK 3
S1 PEAK 2
S4 PEAK 1
S20 FLAT
S19 PARAMETRIC EQ CURVE
S18 SPECTRUM ANALYZER
S17 MEMORY
S16 MANUAL
S15 PROGRAM
S14 CAR/M6
S13 HS/M5
S12 CLASSIC/M4
S11 JAZZ/M3
S10 POP/M2
S9 ROCK/M1
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
A
B
C
D
E
F
G

IC BLOCK DIAGRAM (GE-Z9300)

IC, BA3826S



INPUT SELECTOR LOGIC TABLE

SELECTOR		INPUT
L (5PIN)	R (6PIN)	
L	L	UNDETERMINED
L	H	L IN
H	L	R IN
H	H	OFF

OUTPUT SELECTOR LOGIC TABLE

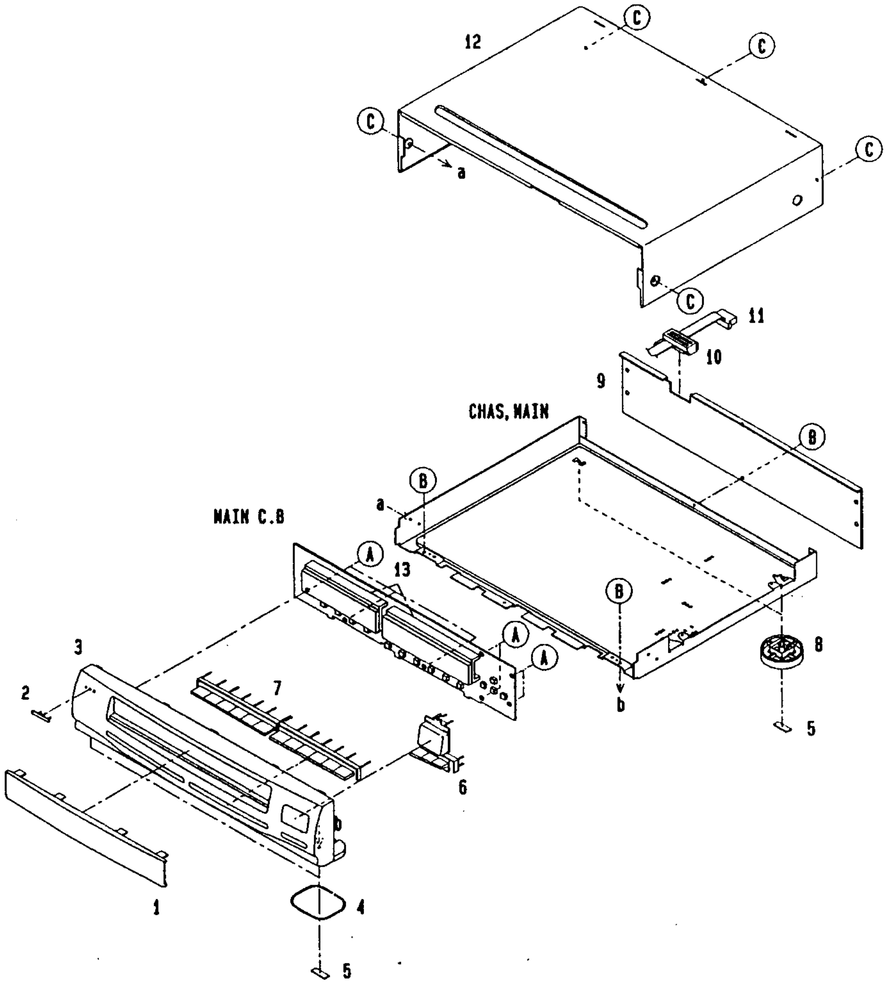
SELECT			OUTPUT
A (5PIN)	B (6PIN)	C (7PIN)	C (7PIN)
H	H	H	0
L	H	H	F01
H	L	H	F02
L	L	H	F03
H	H	L	F04
L	H	L	F05
H	L	L	F06
L	L	L	F07

IC, DESCRIPTION (GE-Z9300)

IC, LC65204A-4B13

Pin No.	Pin Name	I/O	Description
1	$\overline{\text{SI}}$	O	FL display segment output.
2	SC1/2	O	FL display control.
3~5	A~C	O	BA3826S output signal control.
6	AD5	I	Sound detect input. (DC level)
7~8	AD6~AD7	I	A/D input for key input.
9	AV+	—	Connected to +5V line.
10	AV-	—	GND.
11	VSS	—	GND.
12~13	OS1~OS2	—	X'tal terminal. (3.9MHz)
14	VDD	—	Power supply. (+5V)
15	$\overline{\text{RST}}$	I	Reset signal input.
16	X1	I	Connected to +5V line.
17	X2	—	Not used. (Not connected)
18	TEST	I	Connected to GND.
19	SI	I	Data input from CXP82324.
20	SO	O	Data output to CXP82324.
21	CLK	I	Clock signal input from CXP82324.
22	$\overline{\text{CE}}$	I	Strobe signal input from CXP82324.
23~26	PC0~PC3	O	FL display grid drive signals.
27~30	PD0~PD3	O	FL display grid drive signals.
31~34	PK0~PK3	O	FL display segment outputs.
35~38	PL0~PL3	O	FL display segment outputs.
39~42	PM0~PM3	O	FL display segment outputs.
43~46	PN0~PN3	O	FL display segment outputs.
47~50	PO0~PO3	O	FL display segment outputs.
51	PP0	O	FL display segment outputs.
52	VP	I	FL display power supply. (-30V)

MECHANICAL EXPLODED VIEW 1/1 (GE-Z9300)



MECHANICAL PARTS LIST 1/1 (GE-Z9300)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	85-VU1-005-019		WINDOW, DISPLAY
2	82-NE8-032-019		BADGE AIWA 27.5
3	85-VU1-001-019		CAB, FR
4	84-VM5-013-010		RING, FOOT
5	82-VW2-211-019		FELT, 20-7.5-2
6	85-VU1-004-019		KEY, CRSR
7	85-VU1-003-019		KEY, GEQ
8	81-VX1-012-019		FOOT, REAR
9	85-VU1-002-019		PANEL, REAR YBN(Y)
9	85-VU1-010-019		PANEL, REAR YJBN(YJ)
10	89-VT5-202-010		BUSHING CORD
11	82-VU1-632-019		CORD 9PFG55CM
12	82-VT1-009-119		CAB, STEEL
13	81-DS2-204-219		GUIDE FL
A	87-067-703-019		BVT2+3-10 (W/O SLOT)
B	87-067-660-019		BVT2+3-8W/O SLOT BLK
C	87-067-641-019		UTT2+3-8 W/O SLOT BLK

MODEL NO.

SX-Z9300

SPEAKER LIST

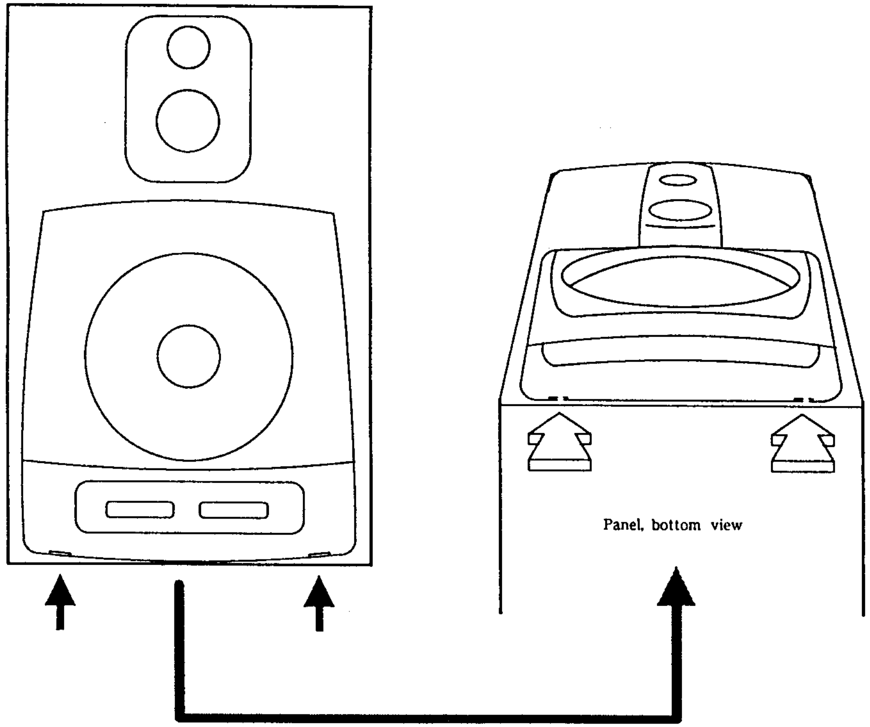
DESCRIPTIONで判断できない物は "REFERENME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	85-VS1-002-010		PANEL W
2	85-VS1-003-010		PANEL TW ASSY
3	84-VS1-005-010		GRILL FRAME ASSY
4	84-VS1-602-010		SPEAKER WOOFER
5	83-NSD-604-010		SPEAKER TWEETER

■ DISASSEMBLY INSTRUCTIONS

- Insert a flat-bladed screwdriver into the position indicated by the arrows (shown in the below figure) and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.

- SX-Z9300 (3 WAY SPEAKER SYSTEM)



REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER
サージサプレッサ	SERGESUPPRESSOR
セラコン	CAP,CERA

サービス技術ニュース	
番号	連絡内容
G－　－	
G－　－	
G－　－	

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL
ジグアーム	ARM,SHAFT
ジグガイド	GUIDE,SHAFT
ストラップ	STRAP
トクナベ	S-SCREW
ヒンジ	HINGE
ヒンジビス	S-SCREW
ビスセレート	SCREW,SERRART

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